GLOBAL NEWS
Evidence of DDT–Autism Link

REVIEWS
Books, Film, Music

SCIENCE
The Potential Disaster of 5G

NEXUS

THE ALTERNATIVE NEWS MAGAZINE

October – November 2018
Vol. 25, No. 6
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Magic mushrooms: the benefits of psilocybin

Crop circles 2018

The art and science of sound therapy

Did the Big Bang even happen?

Moringa, miracle tree of India

Priore machine: magnetism and microwaves

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I AM A HAPPY CAMPER! THANKYOU! - Warmly, Josh M, Meleny, QLD, OZ

I healed up and won me $8,000: I started on Self Regeneration to help with my tumour removal from my throat! It healed so fast the doctors were amazed! Next, thank you, thank you Denis I had your wonderful Mother of Abundance elixir. It worked all right, winning me $8,000 at Keno! Jon P, Whyalla, SA, OZ

Highly recommended for Fulfilling your Destiny! I recently got his "Mission & Destiny" Ormus and from the first night I started feeling the increaded urge to truly contribute to humanity. I'm learning something about my role and humanity Every Day! Highly recommended. Denis offers truly empowered products. If you're looking for just the right Ormus variety to help you heal, find peace, or fulfill your destiny, he has a variety designed for you. - **Sharon R, Bay Area, CA, USA**

Unexpected payment! MA definitely worked for us! We received an unexpected cheque - a $7,000+ super policy in Liz' name ... that mysteriously found us ~ 5 addresses later! Your Ormus has been awesome and we have ordered more, we love it! Keep up the good work. - Aaron & Liz, Margaret River, WA, OZ

In Love and Happy again!! - Re "Manifesting" and your Ormus, things have certainly changed in my world, with me falling in love, moving in with a wonderful man, quitting a 10 year job and getting happy again. Thankyou for helping me change my life. I love it now! - **Tammy, Dandenong , Victoria, OZ**

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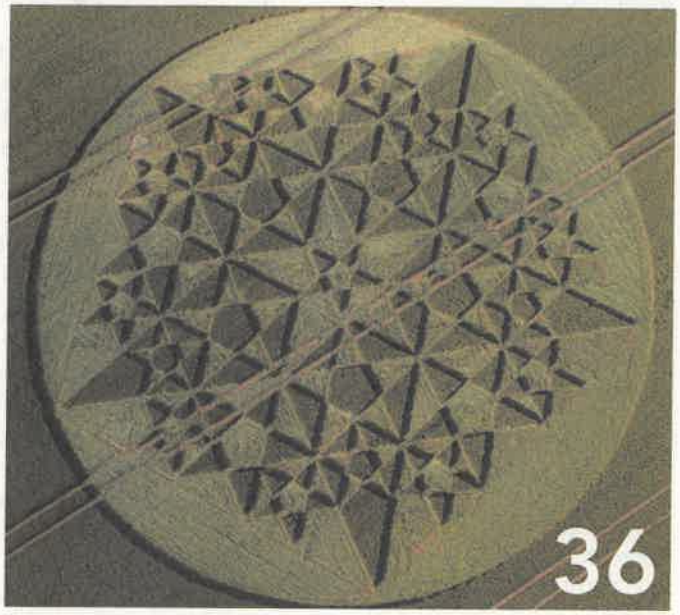

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STATEMENT OF PURPOSE
NEXUS recognises that humanity is undergoing a massive transformation. With this in mind, NEXUS seeks to provide 'hard-to-get' information so as to assist people through these changes. NEXUS is not linked to any religious, philosophical or political ideology or organisation.

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Bang Goes Another Theory

We all know that the times they are a changing, but it actually feels like the speed of change itself is increasing, leaving us with a world that is connected electronically, but at the same time, more fragmented than ever before. Such is the deluge of information and choices that few seem to know or care about anything outside of their little "patch", whether virtual or physical.

But that is where NEXUS comes in, with yet another issue full of articles to challenge your beliefs and test your boundaries. This edition has information on the benefits of psilocybin as found in "magic" mushrooms, and how microdosing affects the brain and personality for the better. Still on the subject of health, moringa is a plant that is generating some amazing results for those taking it, and little wonder when you read up on its properties.

Our articles on the art and science of sound therapy and on the Priore machine should give people reason to pause and consider other-level vibratory health causes and effects.

The advances of science in many diverse fields, the explosion of social media subcultures, and the abandonment of traditional "news" has left us with a global village full of people shaped by entertainment (or perhaps more accurately *entrainment*), but are we any closer to understanding who we are and where we are going?

Such is the deluge of information and choices that few seem to know or care about anything outside of their little "patch", whether virtual or physical.

Science presents a model of reality which literally says existence has no meaning—i.e. we are the result of a cosmic accident, and that life is a case of survival of the fittest. Thus, according to science, everything you see around you in all its wonder and mystery created itself out of nothing, for no reason. It is a faith-based nonsense, no different to the narratives presented in religious texts.

What many of the general public don't see is that when we drill down into science it is full of holes, contradictions, and even worse, it is fuelled more and more by vested interests—which has resulted in large-scale fraud and corruption. Worse still, the compartmentalisation of science ensures that nobody can change the big-picture narratives such as the Big Bang theory, or the theory of evolution—both of which have been found to be flawed by the latest scientific research.

In recent issues of NEXUS, we've run articles which question whether macro-evolution is even possible; and articles proposing better models to explain gravity, matter and unified fields.

In this issue we take aim at the absurd and contradictory Big Bang theory. This nonsensical theory started falling apart not long after it was proposed, and science has had to literally invent things like dark matter and dark energy just to keep the theory alive. Billions of dollars are spent annually looking for dark energy and dark matter and other diversions, but it is all a massive con and distraction, a dead-end theory deliberately perpetuated by those who want to keep the high ground of real scientific knowledge to themselves.

Happy reading!

– Duncan

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Bill Gammage Falsified History I — Landscape Management Author of *The Biggest Estate on Earth*, Bill Gammage reveals a stunning fact: for over 40,000 years the Aboriginal people of this country had been carefully shaping the land to create a productive and beautiful landscape which the early white settlers most often described as resembling an "English parkland". Code SH1

Steven and Evan Strong Skulls that Rewrite History A growing number of ancient mystery hominin skulls have been found in Victoria. In one case (Kow Swamp) the skulls were reburied, thus denying any further research. Two years ago, several more, similar skulls were found in another location in Victoria, and are being examined by a team of researchers, who believe the skulls have the potential to rewrite human history. Code SH2

Stella Wheildon (with Allan Euston Williams) Starlore, ETs and Origins Starlore of the Origine (original) people is part of the creation lore (Bootheram). Before patriarchal culture, the southern continent held its ancestral matristic lore since the Alcheringa (the beginning of the Dreamtime) which was several million years and several ice ages ago. Code SH3

Lionel Lauch and Duncan Roads Mysterious Creatures and more For two hundred years, white people have reported encounters with yowies, giant lizards and snakes, "little people", mountain lions and panthers; and places where people disappear. Now hear the original version. Code SH4

Steven and Evan Strong Slater and the Standing Stones Often referred to as the "Aboriginal Stonehenge", this standing stone formation in northeastern NSW was examined extensively by archaeologists in the early 20th century, only to be covered up and partly demolished in attempts to deflect growing attention. The formation came to light again a few years ago, and fresh attempts to have the stone formation recognised, or at least examined properly, are being hindered by government intervention. Code SH5

Bruce Pascoe Falsified History II — Agricultural Practices Using early explorers' journals and other evidence, Bruce Pascoe — author of *Dark Emu* — shows precolonial Aboriginal people were not hunter-gatherers, but had a democracy that ensured peace across a continent which was complete with housing, extensively farmed, skilfully managed and deeply loved. Code SH6

Duncan Roads and Trent Lynwood interview Aboriginal Prophecy and the End of Days The End of Days is a prophecy that has been long awaited by the Origine people. It is the end of the darkness and a "return" of the spirit of the Dreaming. This epoch-long prophecy is being spoken of now, because it is expected to happen soon... Code SH7

Duncan Roads Challenging Out of Africa Local and global examples of why we need a rewrite of the history books, including: LIDAR technology which reveals vast ancient cities under the jungles of Cambodia and Guatemala; artefacts, bones and art being found challenge "Out of Africa"; pushing occupation back from 65,000 years to 100,000 years ago; and discussion on Kumari Kandam, a semi-mythical sunken landmass that joined Madagascar, India and parts of northwestern Australia. Code SH8

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LETTERS

Tidal Wave Vision

Dear Duncan: I read with interest your interview with Trent Lynwood in the last issue of NEXUS.

Back in the early 1970s when I was living in Melbourne and attending the Victorian Spiritualist Union, the President, George Eldred—a deep trance medium—held members' gatherings at the church in A'Beckett Street, where he would allow some of his spirit guides to speak.

On one occasion Paul Steinhart (guide) told our gathering that Australia was going to split into three islands—top to bottom down the centre (100 miles or 161 km wide) and across from the centre split to the east coast (50 miles or 80 km wide starting somewhere above Sydney). There was no time period given. (Just out of curiosity I checked out the possibilities of the top to bottom split—if there was a rise in sea levels around the Gulf of Carpentaria it would be possible for the water to trigger a split in the series of artesian wells running through the centre—but dismissed it as too far-fetched.)

Some time later I remember standing outside St Vincents Hospital in Melbourne, looking towards Port Phillip Bay and having a vision. "That's a bloody big tidal wave", I thought. It seemed to be about a mile high. I wanted to literally head for the hills. I even considered moving near Healesville (200 metres or 656 feet above sea level) but decided that I didn't have the finances to live there.

About the same time, in a dream, I saw a tidal wave sweep across the NSW southeast coast and clear the area, but there didn't seem to be anyone living there at that time.

After 22 years teaching I relocated to the coast—about five minutes from the beach—where I've been living in happy retirement for the past decade or so. I haven't had any inklings to move to higher ground so far. Sorry to be so long-winded but I thought this might be interesting in light of Trent's interview, and perhaps other readers will also write in. (Darn, if I survive, I'm going to miss the ciggies and coffee!)

Best wishes

J.H., NSW, Australia

Apoptosis Breakthrough

Hi Duncan: I refer to a new scientific finding, which actually confirms what many of us already know. Titled "Apoptosis propagates through the cytoplasm as trigger waves" and published in *Science*, 10 Aug 2018, this article is an outstanding piece of science (see Global News this issue).

Apoptosis or cellular death has been observed in the form of a wave, but a cause of "how" is not established. It would be reasonable to expect that any electromagnetic wave in the form of a microsecond current (an AC 50/60Hz current resembling the closest to the human cell) spiking, sagging, or as a swell passing along a wire in microsecond transient and out of phase harmonic, in terms of its amplitude, frequency and time; is consistent with the action of the death of human cells and therefore must contribute to the early or premature breakdown of the cell and the proliferation of sicknesses and diseases.

By filtering the harmonics and transients on the analogue wires the cells, (and given other right environmental factors, such as a correct pH balanced diet), should stay healthier longer is an assumption.

This is breakthrough science confirming that a harmonious sine-wave which has less interference into or on the cell by filtering out undesirable electromagnetic spikes (radiation) and mitigating EMR, would be an essential element for healthy cells and long life. Diet alone cannot stop apoptosis.

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US steps up plan to defend Earth from asteroid strikes

Stephen Hall, NSW

"Wave" to Another Dimension

Hi Duncan: The previous Strange Times (Nexus 25/05) reminded me of a significant experience at Mary Rodwell's home around 2007. We were invited to hear Dolores Cannon do an informal presentation about some of the stranger discoveries she had made with messages from entities who were communicating with her subjects.

Dolores said she had heard—on a number of occasions—future times messages regarding a "wave" which will hit us, and when it does, some of us will move into another place, which looks exactly like our normal world and where suddenly people we know now are no longer present, and this will not be a problem for us. They kind of disappear off our radar, because we are somehow lifted up to a higher frequency, with much to do.

We didn't know what to make of it. But it reminded me of the CHANI Project "entity" saying there was going to be some sort of collision of dimensions.

Den, Western Australia

Was 9/11 a Coup d'État?

An open letter to President Trump concerning the consequences of 11 September 2001.

Mr President: The crimes of 11 September 2001 have never been tried in your country. I am writing to you as a French citizen, the first person to denounce the inconsistencies of the official version, and to open the world to the debate and the search for the

real perpetrators.

In a criminal court, as the jury, we have to determine whether the suspect presented to us is guilty or not, and eventually, to decide what punishment he should receive. When we suffered the events of 9/11, the Bush Junior administration told us that the guilty party was Al-Qaeda, and the punishment they should receive was the overthrow of those who had helped them—the Afghan Taliban, then the Iraqi régime of Saddam Hussein.

However, there is a weight of evidence which attests to the impossibility of this thesis. If we were members of a jury, we would have to declare objectively that the Taliban and the régime of Saddam Hussein were innocent of this crime. Of course, this alone would not enable us to name the real culprits, and we would thus be frustrated. But we could not conceive of condemning parties innocent of such a crime simply because we have not known how, or not been able, to find the guilty parties.

We all understood that certain senior personalities were lying when the Director of the FBI, Robert Mueller, revealed the names of the 19 presumed hijackers, because we already had in front of us the lists disclosed by the airline companies of all of the passengers embarked—lists on which none of the suspects were mentioned.

From there, we became suspicious of the "Continuity of Government" procedure tasked with taking over from the elected authorities if they should be killed during a nuclear confrontation. We advanced the hypothesis that these attacks masked a coup d'état, in conformity with Edward Luttwak's method of maintaining the appearance of the Executive, but imposing a different policy.

In the days following 9/11, the Bush administration made several decisions:

• The creation of the Office of Homeland Security and the vote for a voluminous anti-terrorist code which had been drawn up long beforehand, the USA Patriot Act. For activities which the administration itself qualifies as "terrorist", this text suspends the Bill of Rights which was the glory of your country. It unbalances your institutions. Two centuries later, it validates the triumph of the great landowners who wrote the Constitution, and the defeat of the heroes of the War of Independence who demanded that the Bill of Rights must be added.

• The Secretary for Defense, Donald Rumsfeld, created the Office of Force Transformation, under the command of Vice Admiral Arthur Cebrowski, who immediately presented a program, conceived a long time earlier, planning for the control of access to the natural resources of the countries of the geopolitical South. He demanded the destruction of State and social structures in the half of the world which was not yet globalised. Simultaneously, the Director of the CIA launched the "Worldwide Attack Matrix", a package of secret operations in 85 countries where Rumsfeld and Cebrowski intended to destroy the State structures. Considering that only those countries whose economies were globalised would remain stable, and that the others would be destroyed, the men from 9/11 placed US armed forces in the service of transnational financial interests. They betrayed your country and transformed it into the armed wing of these predators.

For the last 17 years, we have witnessed what is being given to your compatriots by the government of the successors of those who drew up the Constitution and opposed at that time—without success—the Bill of Rights. These rich men have become the super-rich, while the middle class has been reduced by a fifth and poverty has increased.

We have also seen the implementation of the Rumsfeld–Cebrowski strategy. Phoney "civil wars" have devastated almost all of the Greater Middle East. Entire cities have been wiped from the map, from Afghanistan to Libya, via Saudi Arabia and Turkey, who were not themselves at war.

In 2001, only two US citizens denounced the incoherence of the Bush version, two real estate promoters—the Democrat Jimmy Walter, who was forced into exile, and yourself, who entered into politics and was elected President.

In 2011, we saw the commander of AFRICOM relieved of his mission and replaced by NATO for having refused to support Al-Qaeda in the liquidation of the Libyan Arab Jamahiriya. Then we saw NATO's LANDCOM organise Western support for jihadists in general and Al-Qaeda in particular, in their attempt to overthrow the Syrian Arab Republic.

So the jihadists, who were considered "freedom fighters" against the Soviets, then "terrorists" after 9/11, once again became the allies of the deep state, which, in fact, they have always been.

So, with an immense upsurge of hope, we have watched your actions to suppress, one by one, all support for the jihadists. It is with the same hope that we see today that you are talking with your Russian counterpart in order to bring back life to the devastated Middle East. And it is with equal anxiety that we see Robert Mueller, now a special prosecutor, pursuing the destruction of your homeland by attacking your position.

Mr President, not only are you and your compatriots suffering from the diarchy which has sneaked into power in your country since the coup d'état of 11 September 2001, but the whole world is a victim.

Mr President, 9/11 is not ancient history. It is the triumph of transnational interests which are crushing not only your people, but all of humanity which aspires to freedom.

Thierry Meyssan, VoltaireNet.org
Beirut, Lebanon

Global News from NEXUS Newsfeed

SOUTH AFRICA TO LEGALISE CONFISCATION OF WHITE FARMERS' LANDS

South African President Cyril Ramaphosa, who vowed to return the lands owned by the white farmers since the 1600s to the country's black population after he assumed office in February this year, said that the ANC would introduce a constitutional amendment in parliament.

The millionaire ex-businessman argued that "it has become pertinently clear that our people want the constitution to be more explicit" about the proposal, which is viewed by the white minority as forceful expulsion that can incite violence against farmers.

Promoting his plan to boost land redistribution in March, Ramaphosa sought to assure white citizens, who constitute roughly nine per cent of the total population, that the government would handle the controversial matter through "dialogue, discussion, engagement, until we find good solutions that take our country forward."

However, many of the Boers, descendants of Dutch settlers in South Africa, do not take the government's promises at face value, instead seeking asylum abroad from what they say is a surge in violence and government-fuelled hostility against them.
(Source: RT.com, 3 August 2018; http://tinyurl.com/ycnpn7j6)

GREAT PYRAMID OF GIZA ABLE TO CONCENTRATE ELECTROMAGNETIC ENERGY

New research from an international team of physicists has revealed that the Great Pyramid of Giza may be able to focus electromagnetic energy through its hidden chambers and under its base.

Scientists at Itmo University in Russia and Germany's Laser Zentrum Hannover applied methods of theoretical physics to investigate the electromagnetic response of the ancient Egyptian pyramid to radio waves.

Their calculations predicted that in a resonant state, the pyramid could concentrate electromagnetic energy in its internal chambers, as well as under its base, where the third unfinished chamber is located.

The research team created a 3D model of the pyramid and used analytical methods of theoretical physics to come up with their conclusions.

Due to the lack of information about the physical properties of the pyramid, researchers had to work off a number of assumptions—including that there are no unknown cavities inside, and the building material with the properties of an ordinary limestone is evenly distributed in and out of the pyramid.

The study has been published in the *Journal of Applied Physics*.
(Source: RT.com, 31 July 2018; https://on.rt.com/9bfn)

MICROBOTS CAN NOW BE RELEASED BY THE MILITARY DURING NATURAL DISASTERS

The US Defense Advanced Research Projects Agency (DARPA) has created yet another technology with an immense potential for abuse: small robots that could be deployed by the government in a time of disaster.

Given the title "SHRIMP," or "Short-Range Independent Micro-robotic Platforms," the robots developed by DARPA aren't that small—they can fit on a person's finger (see below for the components of one of the robots).

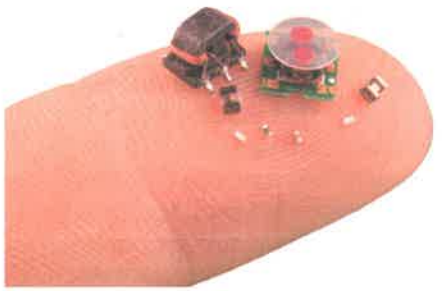

Image: www.themindunleashed.com

In a press release, DARPA program manager for this project, Dr Ronald Polcawich explained:

"Whether in a natural disaster scenario, a search and rescue mission, a hazardous environment, or other critical relief situation, robots have the potential to provide much-needed aid and support.

"However, there are a number of environments that are inaccessible for larger robotic platforms. Smaller robotics systems could provide significant aid, but shrinking down these platforms requires significant advancement of the underlying technology."
(Source: TheMindUnleashed.com, 29 July 2018; http://tinyurl.com/y7mkdcub)

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AMAZON'S DANGEROUS FACIAL RECOGNITION FAIL

Amazon's facial recognition tool wrongly identified 28 members of Congress as police suspects, disproportionately matching lawmakers of colour with the mugshots, says the American Civil Liberties Union (ACLU).

The ACLU used Amazon's powerful image ID software, Rekognition, to compare photos of members of Congress to a database of 25,000 police suspects.

Republican and Democratic legislators of all ages, men and women, were among the mismatches. However, people of colour were disproportionately wrongly matched, according to the ACLU, even though they make up just one-fifth of Congress.

The ACLU said it paid just $12.33 to have Amazon Rekognition compare official photos of every member of the US House and Senate against a database of 25,000 public arrest photos, using the default match settings.

Bezos' corporation claimed that deployment by law enforcement agencies was a "common use case" for the technology and documents revealed that police departments in Orlando and Oregon's Washington County were already using the real-time facial recognition system.

Rekognition allows one to scan mug shot photos against real-time footage such as surveillance or body cameras. The tool has also been touted as an effective means of detecting offensive content online and identifying celebrities.
(Source: RT.com, 26 July 2018; https://on.rt.com/9b5f)

THE POWER TO PURIFY WATER IS IN YOUR FRUIT AND VEGETABLE PEELS

A study of more than a dozen foods shows how fruit and vegetable peels can be used as a natural, low-cost way to remove pollutants such as dyes and heavy metals from water.

Newly published research from Dickinson College is advancing what we know about the power of fruit and vegetable peels to remove pollutants, such as dyes and heavy metals, from water. Chemistry professor Cindy Samet and her students performed water purification experiments using peels and seeds from more than a dozen varieties of foods—from pumpkin and okra to lemon and banana—and found they removed methylene blue, lead and copper through the process of adsorption, a chemical bonding of the pollutant molecules to the surface of the peels.

In 2015, Suresh Valiyaveettil, Samet's coauthor and a professor at the National University of Singapore, published the original research on which Samet based her course. His study analysed the ability of avocado, hamimelon and dragon fruit peels to remove pollutants from water. In a YouTube video, Samet demonstrates how dried avocado peel can adsorb large amounts of methylene blue onto its surface in a matter of hours (https://youtu.be/NX1TAOwS180).

Samet followed Valiyaveettil's protocol for cleaning the surface of the fruit by first boiling the peels/seeds to remove soluble surface impurities. The peels were then dried and crushed before being placed in a solution containing pollutants. Among the findings, lemon seeds removed 100 per cent of lead ions, while the peels removed 96.4 per cent. Okra peels also removed 100 per cent of lead ions, while the seeds removed 50 per cent.
(Source: ScienceDaily.com, 1 August 2018; http://tinyurl.com/yc47xfgt)

EMERGENCY ROOM MEDICAL ERRORS KILL 250,000 PER YEAR IN THE USA

Medical errors are estimated to cause 250,000 deaths per year in the US. Previously, research on admitted patients suggested that errors are due to the way doctors process the data they have about patients—in other words, doctors have the right information, but might not act on it in the best way.

The emergency department is a very different clinical environment from the inpatient wards, with frequent interruptions and often incomplete or unreliable information. Despite this, a new study published in De Gruyter's journal *Diagnosis* shows that doctors in an emergency department with trainees make similar types of errors to those made in admitted patients—more information processing errors are made than errors of inadequate knowledge or inadequate information.

The most frequently identified type of error (45 per cent of cases) was problems with information processing, followed by problems with verifying information that was gathered (31 per cent). Inadequate knowledge problems (six per cent) and inadequate information gathering (18 per cent) occurred relatively infrequently.

Misjudging how significant a finding was and prematurely deciding on an incorrect diagnosis were the individual errors that occurred most frequently (13 per cent each).
(Source: ScienceDaily.com, 28 July 2018; http://tinyurl.com/y9ayukve)

RUSSIA SETS STANDARDS FOR ORGANIC FOOD PRODUCTION

President Vladimir Putin has signed a new law regulating production, storing and transportation of organic produce in Russia. The decree bans agrochemicals, pesticides, antibiotics, growth stimulators and hormones.

The new law, previously approved by both chambers of the Russian Parliament, will enter force on January 1, 2020. The regulation introduces references to "organic produce", "manufacturer of organic produce" and "organic agriculture", as well as sets control over producing, storing, labelling, selling and transporting goods of the kind.

The legislation doesn't cover such goods such as perfumery, cosmetics, and medicines, forest plants seeds, hunting and fishing produce apart from aquaculture.

The first attempts to adopt the measure in Russia were taken 15 years ago. The legislation may help Russia take a 25 per cent stake in the global organic produce market, said Russia's Prime Minister Dmitry Medvedev earlier this year.

The measure, which also includes creating a national register, will help to force dishonest players out of the market and will have a positive impact on the quality of organic products, according to State Duma speaker Vyacheslav Volodin.
(Source: RT.com, 8 August 2018, http://tinyurl.com/y8yaduev)

CHINA TO MAKE IT RAIN OVER AN AREA THREE TIMES THE SIZE OF SPAIN

Since 2013 China has been creating 55 billion tons of artificial rain a year. The country is now embarking on its biggest rainmaking project ever.

In terms of the plan, announced in April, Chinese authorities intend to force rainfall and snow over 1.6 million square kilometres (620,000 square miles), an area roughly three times the size of Spain.

According to media reports, the government will use new military weather-altering technology developed by the state-owned China Aerospace Science and Technology Corporation. The country plans to build tens of thousands of combustion chambers on Tibetan mountainsides. The chambers will burn a solid fuel, which will result in a spray of silver iodide billowing towards the sky.

"More than 500 burners have been deployed on alpine slopes in Tibet, Xinjiang and other areas for experimental use. The data we have collected show very promising results," an unnamed researcher told the *South China Morning Post*. "Sometimes snow would start falling almost immediately after we ignited the chamber. It was like standing on the stage of a magic show," he said.

The Tibetan plateau is vital to the water supply for much of China and a large area of Asia. Its glaciers and reservoirs feed the Yellow, Yangtze, Mekong, and other major rivers that flow through China, India, Nepal, and other countries.

Sprayed from planes, the particles will provide something for passing water vapour to condense around, forming clouds. Those clouds will bring the rain. A single cloud-seeding chamber could create a strip of clouds covering a five kilometre area.

Traditionally, the rainmaking process or "cloud-seeding" means rocket launching chemicals into clouds which accelerate the creation of ice crystals that eventually become rain. China also uses military aircraft for those purposes. Rainmaking is also a popular way to "clean up" air in China, where heavy smog is a big problem for many cities.

The practice of weather modification has become more frequent across the country in recent years, including for major public events. In 2008, China launched over 1,100 rockets containing silver iodide into Beijing's skies before the Olympics opening ceremony to disperse clouds and keep the Olympics rain-free. Beijing has a "development plan" for weather modification until 2020.
(Source: RT.com, 8 April 2018; http://tinyurl.com/yappo4wb)

EMBALMING MORE ANCIENT AND WIDESPREAD THAN PREVIOUSLY KNOWN

The ancient Egyptians developed sophisticated embalming treatments far earlier and across a wider geographical area than had been previously known, forensic tests on a well-known prehistoric mummy have revealed.

Dating from c. 3700–3500 BCE, the mummy has been housed in the Egyptian Museum in Turin since 1901, but unlike the majority of other prehistoric mummies in museums, it has never undergone any conservation treatments.
(Source: ScienceDaily.com, 15 August 2018; http://tinyurl.com/y83y79pm)

FROZEN WORMS COME BACK TO LIFE AFTER 42,000 YEARS

In a major scientific breakthrough, Nematodes are moving and eating again for the first time in over 42,000 years.

The frozen roundworms found in permafrost from two different areas of Siberia, came back to life after being defrosted in petri dishes, in a laboratory at The Institute of Physico-Chemical and Biological Problems of Soil Science at Moscow State University (MSU).

"We have now obtained the first data demonstrating the capability of multicellular organisms for longterm cryobiosis in permafrost deposits of the Arctic," states a report from Russian scientists from four institutions in collaboration with Princeton University.

Some 300 prehistoric worms were analysed—and two "were shown to contain viable nematodes".

One worm found in permafrost near Alazeya River in 2015, was found to date around 41,700 years old.

Also involved in the report were Pertsov White Sea Biological Station (MSU); the Higher School of Economics (Moscow); and the Department of Geosciences, Princeton University.

Currently the nematodes are the oldest living animals on the planet.
(Source: SiberianTimes.com, 26 July 2018; http://tinyurl.com/y7uoersh)

CORPORATE SOVEREIGNTY ON THE WANE?

A few years ago, corporate sovereignty, officially known as "investor-state dispute settlement" (ISDS), was an indispensable and important element of trade deals. But the world is finally moving on, and old-style corporate sovereignty is losing its appeal. Last year, the US Trade Representative, Robert Lighthizer, hinted that the US might not support ISDS in future trade deals, but it was not clear what that might mean in practice. The Canadian Broadcasting Corporation reports: "The preliminary trade agreement the US recently reached with Mexico may offer a glimpse of what could happen with NAFTA's Chapter 11 [governing ISDS]. A US official said the two countries wanted ISDS to be 'limited' to cases of expropriation, bias against foreign companies or failure to treat all trading partners equally."

A willingness to move on from traditional ISDS can be seen in the often overlooked, but important, Regional Comprehensive Economic Partnership (RCEP) trade deal. India's Business Standard reports: "Despite treading diametrically opposite paths on tariffs and market access, India and China, along with other nations, have hit it off on talks regarding investment norms in the proposed Regional Comprehensive Economic Partnership (RCEP) pact. In a bid to fast-track the deal, most nations have agreed to ease the investor-state-dispute settlement (ISDS) clauses."

As with NAFTA and CETA, it seems that nations involved in RCEP no longer regard corporate sovereignty as a priority, and are willing to weaken its powers in order to reach agreement on other areas. Once the principle has been established that ISDS can be watered down, there's nothing to stop nations proposing that it should be dropped altogether.
(Source: TechDirt.com, 13 September 2018; http://tinyurl.com/y9bknhfc)

FIRST BIOMARKER EVIDENCE OF DDT–AUTISM LINK

A study of more than one million pregnancies in Finland reports that elevated levels of a metabolite of the banned insecticide DDT in the blood of pregnant women are linked to increased risk for autism in the offspring.

The study, conducted in collaboration with investigators at the University of Turku and the National Institute of Health and Welfare in Finland, is the first to connect an insecticide with risk for autism using maternal biomarkers of exposure.

The investigators found the odds of autism with intellectual disability in offspring were increased by greater than twofold for the mother's DDE levels in the top quartile. For the overall sample of autism cases, the odds were nearly one-third higher among offspring exposed to elevated maternal DDE levels.

While DDT and PCBs were widely banned in many nations over 30 years ago, including the US and Finland, they persist in the food chain because their breakdown occurs very slowly, as long as several decades, resulting in continuing exposure to populations. These chemicals are transferred across the placenta in concentrations greater than those seen in the mother's blood.
(Source: ScienceDaily.com, 16 August 2018; http://tinyurl.com/yd8bf2vr)

Image: www.panna.org

BITCOIN MINING CONSUMES THE ANNUAL ENERGY CONSUMPTION OF IRELAND

The energy to sustain blockchain debate rages on as the energy consumption increases.

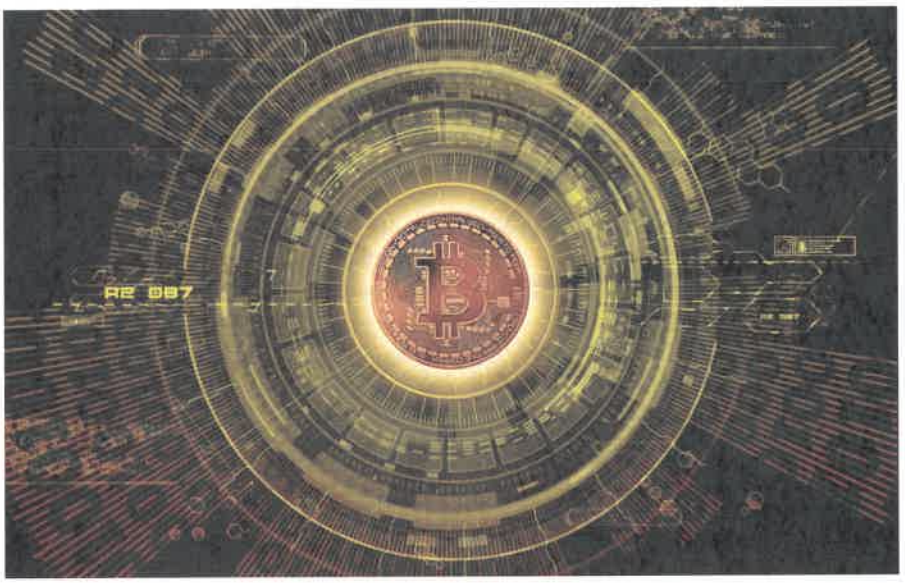
The criticism amongst ecological circles and the debates around bitcoin energy consumption have been fuelled by a paper by Alex de Vries of PwC's Experience Center in Amsterdam, The Netherlands.

His paper, "Bitcoin's Growing Energy Problem", concludes that bitcoin's energy consumption could soon be heading above a consumption rate of eight gigawatts (GW) per year.

The paper's findings include:

• At the moment, the bitcoin network consumes at least 2.55 GW of electricity—as high as the annual energy consumption of Ireland.

• This could reach a consumption of 7.67 GW in the future—close to the energy consumption of the entire nation of Austria (8.2 GW).



• By the end of 2018, the mining of bitcoin could be using as much as 0.005% of the entire world's energy use.

The reality is that bitcoin uses a massive amount of energy. Author Alex de Vries says: "The bitcoin development community is experimenting with solutions such as the Lightning Network to improve the throughput of the network, which may alleviate the situation. For now, however, bitcoin has a big problem and it is growing fast."

(Source: WUWT, 17 August 2018; http://tinyurl.com/y9xjdwek)

DIPLOMATS' MYSTERY ILLNESSES LINKED TO RF/MICROWAVE RADIATION

Writing in advance of the September 15 issue of *Neural Computation*, Beatrice Golomb, MD, PhD, professor of medicine at University of California San Diego School of Medicine, says publicly reported symptoms and experiences of a "mystery illness" afflicting American and Canadian diplomats in Cuba and China strongly match known effects of pulsed radiofrequency/microwave electromagnetic (RF/MW) radiation.

Her conclusions, she said, may aid in the treatment of the diplomats (and affected family members) and assist US government agencies seeking to determine the precise cause. More broadly, Golomb said her research draws attention to a larger population of people who are affected by similar health problems.

"I looked at what's known about pulsed RF/MW in relation to diplomats' experiences," said Golomb. "Everything fits. The

specifics of the varied sounds that the diplomats reported hearing during the apparent inciting episodes, such as chirping, ringing and buzzing, cohere in detail with known properties of so-called 'microwave hearing,' also known as the Frey effect.

"And the symptoms that emerged fit, including the dominance of sleep problems, headaches and cognitive issues, as well as the distinctive prominence of auditory symptoms. Even objective findings reported on brain imaging fit with what has been reported for persons affected by RF/MW radiation."

Beginning in 2016, personnel at the US Embassy in Havana, Cuba (as well as Canadian diplomats and family members) described hearing strange sounds, followed by development of an array of symptoms, including tinnitus, headaches, hearing loss, dizziness and fatigue.

In May of this year, the State Department reported that US government employees in Guangzhou, China had also experienced similar sounds and health problems.

Affected diplomats and family members from both locations were medically evacuated to the US for treatment, but despite multiple government investigations, an official explanation of events and subsequent illnesses has not been announced.

(Source: ScienceDaily.com, 29 August, 2018; http://tinyurl.com/y8ymvxqj)

SCIENTISTS CAPTURE THE SPEED OF DEATH AS IT MOVES THROUGH A CELL

For the first time ever, scientists have witnessed death itself moving through a cell and have measured its speed.

Scientists from the Stanford University School of Medicine witnessed the wave-like motion of cell death and published their groundbreaking findings in the journal *Science*.

The team found signals that trigger death to travel through cells in a domino-like effect, at a rate of three micrometres per minute. A micrometre is equal to one-millionth of a metre.

These signals trigger apoptosis, a type of cell suicide or programmed cell death (PCD). It is the most understood form of cell death and is used by the human body to get rid of old or damaged cells.

"This work is another example of how nature makes use of these trigger waves—things that most biologists have never heard of—over and over again," biochemist James Ferrell said. "It is a recurring theme in cell regulation. I bet we'll start to see it in textbooks soon."

Scientists used the egg of an African clawed frog, which is a single, large cell, to conduct the experiment. After removing the cytoplasm and placing it in a tube, they then initiated apoptosis and used a fluorescent green protein that glows when apoptosis occurs.

The green glow moved at a constant speed which shows apoptosis was spreading through trigger waves rather than chemical diffusion. Scientists then conducted the same experiment with an intact egg.

The findings add to scientists' understanding of cellular death, which could contribute to research on cancer treatment and for Alzheimer's as well as other neurodegenerative conditions.
(Source: RT.com, 13 August 2018; https://on.rt.com/9cb9)

FINANCIAL DISCLOSURE LACKING IN PUBLICATION OF CLINICAL TRIALS

A substantial proportion of pharmaceutical industry payments to authors of oncology clinical trials published in major scientific journals are not disclosed, new research shows. The publications focused on clinical trials that tested new cancer drugs.

Authors of a research letter containing the findings examined the federal Open Payments database to determine payments to oncologists who authored studies in high-impact journals. They then cross-checked the information to determine whether the authors properly disclosed the funding when the results of their clinical trials were published in scientific journals. Depending on the journal, almost half of total funding was not disclosed.

"It's the honor system," said co-author Erick Turner, MD, associate professor of psychiatry in the OHSU School of Medicine and senior scholar with the Center for Ethics in Health Care at OHSU in Portland, Oregon. "The journals ask the authors to make these disclosures, but there's no legal force behind it."

This is the first study to examine financial conflict of interest in the publication of clinical trials that underpin FDA approval of new oncology drugs.

Payments from pharmaceutical companies have been shown to change physician prescribing practices, researchers noted.

"We know that pharmaceutical companies sponsor trials of their own drugs. That's not a surprise," said lead author Cole Wayant, DO/PhD researcher at Oklahoma State University. "But what is a surprise, and what warrants concern, is that this funding is often not disclosed in the publication of clinical trials that form the basis of FDA approvals and clinical practice guidelines."

The researchers identified 344 oncologist authors of clinical trials associated with oncology drugs approved between January 1, 2016, and August 31, 2017. Cumulatively, the 344 oncologist authors received a total of $216 million in four categories of payments: speaking fees and other general payments; research for study coordination; research grants, and ownership through stock payments.

The authors then compared disclosure of financial conflict of interest in clinical trials published in six high-impact scientific journals: The *New England Journal of Medicine*, *The Lancet*, *The Lancet Oncology*, *The Lancet Haematology*, the *Journal of Clinical Oncology*, and *JAMA Oncology*. Almost a third of the oncologist authors (a total of 110) did not fully disclose payments, the study found.

The new findings will be published as a research letter in the journal *JAMA Oncology*.
(Source: ScienceDaily.com, 30 August 2018; http://tinyurl.com/yb8pf42a)

SECRET ISRAELI NUCLEAR TEST SENT FALLOUT ACROSS AUSTRALIA

For more than half a century, Israel has maintained a cover of silence and opacity regarding its nuclear program and arsenal. In return for this silence, plus a pledge of restraint on certain nuclear development activities, the United States has reportedly agreed in writing not to pressure Israel to sign the Nuclear Non-Proliferation Treaty or get rid of its nuclear arsenal.

US policy on Israel also includes its own public silence concerning Israeli nuclear weapons. But this policy should change as a result of a new scientific study of an event that took place nearly 40 years ago, during the Carter Administration. That study makes it virtually certain that the event was an illegal nuclear test. This strengthens previous analyses concluding that Israel likely carried out a nuclear test in violation of US law and the Limited Test Ban Treaty.

The response to this new study will determine whether the United States and the international community of nations are serious about nuclear arms control.

On September 22, 1979, a US Vela satellite, designed to detect clandestine nuclear tests, recorded a "flash" off the coast of South Africa that every nuclear scientist monitoring the satellite's detectors at the time believed fit the classic description of a nuclear explosion.

Corroborative data from different sources was immediately sought and analysed, but much of that data and analysis has remained classified to date (nearly 40 years later), despite attempts to get the government to remove the classification.

Important new and dispositive evidence that the "flash" was a nuclear test has been added recently by two respected scientists, Christopher Wright of the Australian Defence Force Academy and Lars-Eric De Geer of the Swedish Defence Research Agency (Ret.), writing in the journal *Science & Global Security*.

Using data first gathered by Distinguished Professor Lester VanMiddlesworth of the University of Tennessee on radioactivity found in the thyroids of sheep in Australia within the time period following the "flash", plus meteorological data from the time and some radionuclide and hydro-acoustic data released by the US government, Wright and De Geer have produced an analysis of the Vela event that removes virtually all doubt that the "flash" was a nuclear explosion. The explosion was one of small yield, perhaps to simulate the result of firing a nuclear artillery shell.

Israel was the only country that had the technical ability and policy motivation to carry out such a clandestine test, which, according to some sources, was the last of several and was detected by the Vela satellite because of a sudden change in cloud cover.

The new study by Wright and De Geer should receive wide attention because it provides a test of the commitment by the international community to nuclear arms control and non-proliferation norms. While a comprehensive nuclear test ban is yet to be achieved, the nations of the world did manage to put in place an extremely important arms control, non-proliferation, and environmental protection measure called The Limited Test Ban Treaty (LTBT). This treaty, which went into force in 1963, bans nuclear explosions in the atmosphere, in outer space, and under water, thus rendering legal only those nuclear tests performed underground. Israel signed the treaty in 1963 and ratified it in 1964.

The Israeli nuclear test puts Israel in violation of the LTBT, which has been signed by 108 countries, including all the officially recognised nuclear weapon states plus India, Pakistan, and Iran. Israel would also be in violation of the Glenn Amendment to the Arms Export Control Act, a US law passed in 1977, requiring the cut-off of military assistance to any country setting off a nuclear explosion.

At a time when public demands for nuclear transparency are loudly and justifiably trumpeted toward Iran and North Korea, which are pariahs in many Western eyes, it is illogical at best and hypocritical at worst for the world, and particularly the United States, to maintain public silence on Israel's nuclear program, especially in the face of a violation of an important nuclear norm. For the sake of future progress on arms control, on steps to reduce nuclear risk, and on honest public as well as private communication among governments and their constituents to achieve such progress, it is time to end an existing double standard that has allowed Israel to escape accountability for developing advanced nuclear weapons by violating a major international treaty.

(Source: Bulletin of the Atomic Scientists, 3 August 2018, http://tinyurl.com/ycnkrcfu)

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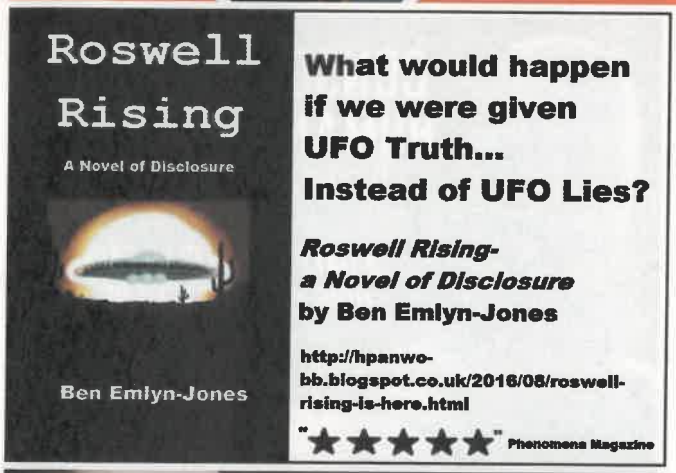
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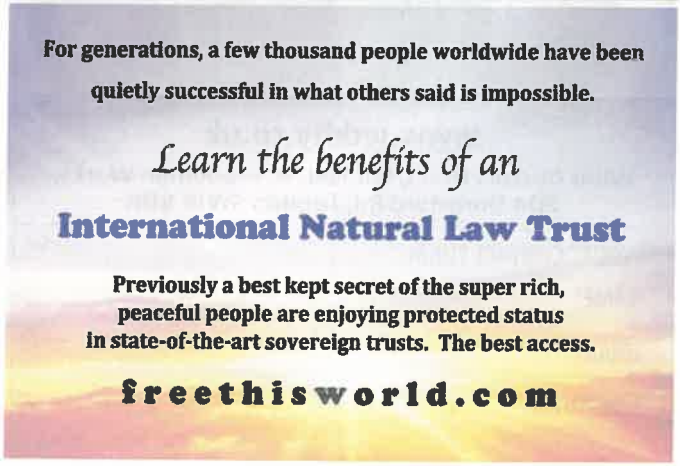
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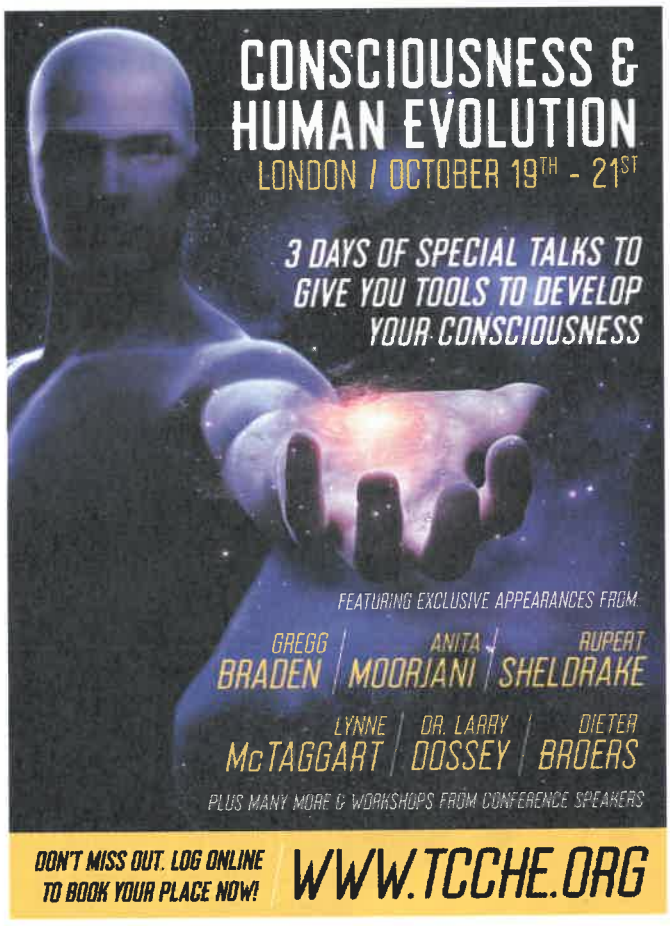
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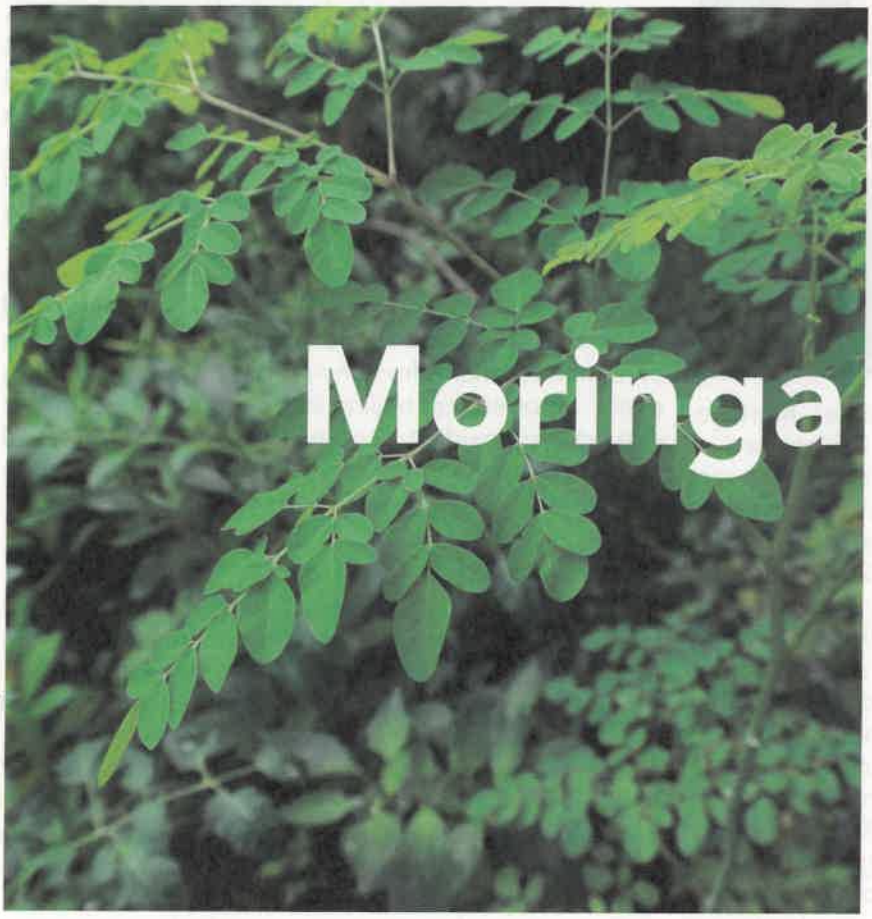

Moringa The "miracle" tree of India

by Lakshmipriya Gopalakrishnan,
Kruthi Doriya,
Devarai Santhosh Kumar
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Native to India, *Moringa oleifera* grows in the tropical and subtropical regions of the world. It is commonly known as "drumstick tree", "horseradish tree" or the "Miracle Tree". Moringa can withstand both severe drought and mild frost conditions and hence is widely cultivated across the world. With its high nutritive values, every part of the tree is suitable for either nutritional or commercial purposes. The leaves are rich in minerals, vitamins and other essential phytochemicals. Extracts from the leaves are used to treat malnutrition and augment breast milk in lactating mothers. It is used as a potential antioxidant, anticancer, anti-inflammatory, antidiabetic and antimicrobial agent. *M. oleifera* seed, a natural coagulant, is extensively used in water treatment.

Moringa oleifera, belonging to the family of Moringaceae, is an effective remedy for malnutrition. Moringa is rich in nutrition owing to the presence of a variety of essential phytochemicals present in its leaves, pods and seeds. In fact, moringa is said to provide seven times more vitamin C than oranges, 10 times more vitamin A than carrots, 17 times more calcium than milk, nine times more protein than yoghurt, 15 times more potassium than bananas and 25 times more iron than spinach[1]. About six spoonfuls of leaf powder can meet a woman's daily iron and calcium requirements during pregnancy.

Nutritive Properties

Every part of *M. oleifera* is a storehouse of important nutrients and antinutrients. The leaves of *M. oleifera* are rich in minerals like calcium, potassium, zinc, magnesium, iron and copper[2]. Vitamins like beta-carotene of vitamin A, vitamin B such as folic acid, pyridoxine and nicotinic acid, vitamin C, D and E also present in *M. oleifera*[8]. Phytochemicals such as tannins, sterols, terpenoids, flavonoids, saponins, anthraquinones, alkaloids and reducing sugar present along with anticancerous agents like glucosinolates, isothiocyanates, glycoside

compounds and glycerol-1-9-octadecanoate[9]. Moringa leaves also have a low calorific value and can be used in the diet of the obese. The pods are fibrous and are valuable to treat digestive problems and thwart colon cancer[10,62]. Research shows that immature pods contain around 46.78 per cent fibre and around 20.66 per cent protein content. Pods have 30 per cent amino acid content, the leaves have 44 per cent and flowers have 31 per cent. The immature pods and flowers showed similar amounts of palmitic, linolenic, linoleic and oleic acids[11].

Moringa has lot of minerals that are essential for growth and development, among which is calcium, considered as one of the important minerals for human growth. While eight ounces of milk can provide 300–400 mg, moringa leaves can provide 1,000 mg and moringa powder can provide more than 4,000 mg. Moringa powder can be used as a substitute for iron tablets, hence as a treatment for anaemia. Beef has only 2 mg of iron while moringa leaf powder has 28 mg of iron. It has been reported that moringa contains more iron than spinach[12]. A good dietary intake of zinc is essential for proper growth of sperm cells and is also necessary for the synthesis of DNA and RNA. *M. oleifera* leaves show around 25.5–31.03 mg of zinc/kg, which is the daily requirement of zinc in the diet[13].

Polyunsaturated fatty acids (PUFAs) are linoleic acid, linolenic acid and oleic acid; these PUFAs have the ability to control cholesterol. Research shows that moringa seed oil contains around 76 per cent PUFA, making it ideal for use as a substitute for olive oil[14]. A point to note is that the nutrient composition varies depending on the location. Fuglie[12] revealed that seasons influence the nutrient content. It was shown that vitamin A was found abundantly in the hot-wet season, while vitamin C and iron were more in the cool-dry season[15]. The difference in results can be attributed to the fact that the location, climate and the environmental factors significantly influence nutrient content of the tree[16].

Processing of Moringa

Most plants lose their nutritive properties when processed. When compared, the nutritive content of raw, germinated and fermented moringa seed flour, it was found that phytochemicals were higher in raw seed flour and amino acid content was at its peak in fermented and germinated seed flour[17,59]. This can be a result of the biochemical activities during germination and microbial activity during fermentation. However, a study reviewed the effect of boiling, simmering and blanching to see the retention of nutrient content of moringa leaves. Interestingly, boiling was the most effective of all the techniques as it reduced the cyanide, oxalate and phytate contents more significantly than the other two methods. The presence of phytate and other anti-nutrients can reduce the bioavailability of certain nutrients and processing can hence be done for maximum utilisation of required nutrients from the seeds and leaves[18,63]. Yang et al.[15] reported that boiling increased the availability of iron and antioxidant content. Hence, the processed moringa seed flour can be used to treat malnutrition problems.

Preservation Methods

Moringa can also be preserved for a long time without loss of nutrients. Drying or freezing can be done to store the leaves. A report by Yang et al.[15] shows that a low-temperature oven used to dehydrate the leaves retained more nutrients except vitamin C than freeze-dried leaves. Hence, drying can be done using economical household appliances, such as a stove, to retain a continuous supply of nutrients in the leaves. Preservation by dehydration improves the shelf life of moringa without change in nutritional value.

An overdose of moringa may cause high accumulation of iron. High iron can cause gastrointestinal distress and haemochromatosis. Hence, a daily dose of 70g of moringa is suggested to be good and prevents overaccumulation of nutrients[21].

Medicinal Properties

M. oleifera is often referred to as a panacea and can be used to cure more than 300 diseases. Moringa has long been used in herbal medicine by Indians and Africans. The presence of phytochemicals makes it a good medicinal agent. In this section, the effect of moringa on diseases like diabetes and cancer are reviewed.

• Antidiabetic Properties

Moringa has been shown to cure both Type 1 and Type 2 diabetes. Type 1 diabetes is where the patient suffers from non-production of insulin, which is a hormone that maintains the blood glucose level at the required normal value. Type 2 diabetes is associated with insulin resistance. Type 2 diabetes might also be due to beta cell

Nutritional Compositions and Medicinal Uses of Different Parts of Moringa

TREE PART	MEDICINAL USES	NUTRITIVE PROPERTIES	SUGGESTION
Leaves	Moringa leaves treat asthma, hyperglycemia, dyslipidemia, flu, heart burn, syphilis, malaria, pneumonia, diarrhoea, headaches, scurvy, skin diseases, bronchitis, eye and ear infections. Also reduces blood pressure and cholesterol and acts as an anticancer, antimicrobial, antioxidant, antidiabetic and anti-atherosclerotic agents, neuroprotectant.	Leaves contain fibre, fat proteins and minerals like Ca, Mg, P, K, Cu, Fe, and S. Vitamins like vitamin A (beta carotene), vitamin B (choline), vitamin B1 (thiamine), riboflavin, nicotinic acid and ascorbic acid are present. Various amino acids like Arg, His, Lys, Trp, Phe, Thr, Leu, Met, Ile, Val are present. Phytochemicals like tannins, sterols, saponins, trepenoids, phenolics, alkaloids and flavonoids like quercetin, isoquercetin, kaemfericitin, isothiocyanates and glycoside compounds are present.	The presence of flavonoids gives leaves the antidiabetic and antioxidant properties. The isothiocyanates are anticancer agents. Flavonoids like quercetin and others are known for antiproliferative, anticancer agent. The presence of minerals and vitamins help in boosting the immune system and cure a myriad of diseases. *(References 1,8,12,17,31,40)*
Seeds	Seeds of moringa help in treating hyperthyroidism, Crohn's disease, antiherpes-simplex virus arthritis, rheumatism, gout, cramp, epilepsy and sexually transmitted diseases, can act as antimicrobial and anti-inflammatory agents.	Contains oleic acid (Ben oil), antibiotic called pterygospermin, and fatty acids like linoleic acid, linolenic acid, behenic acid, phytochemicals like tannins, saponin, phenolics, phytate, flavonoids, terpenoids and lectins. Apart from these, fats, fibre, proteins, minerals, vitamins like A, B, C and amino acids.	The presence of flavonoids gives its anti-inflammatory property. The antibiotic pterygospermin is responsible for antimicrobial properties. The other phyto-chemicals help in treating various diseases. *(References 1,2,4,38,61)*
Root Bark	Root bark acts as a cardiac stimulant, anti-ulcer and anti-inflammatory agent	Alkaloids like morphine, moriginine, minerals like calcium, magnesium and sodium.	The alkaloid helps the bark to be antiulcer, a cardiac stimulant and helps to relax the muscles. *(References 39,41)*
Flower	Moringa flowers act as hypocholesterolemic, anti-arthritic agents can cure urinary problems and cold.	Flower contains calcium and potassium and amino acids. Also contains nectar.	The presence of nectar makes them viable for use by beekeepers. *(References 12,38)*
Pods	Moringa pods treat diarrhoea, liver and spleen problems, and joint pain.	Fatty acids like oleic acid, linoleic acid, palmitic acid and linolenic acid are also present. Rich in fibre, lipids, non-structural carbohydrates, protein and ash.	The presence of PUFA in the pods can be used in the diet of the obese. *(Reference 12)*

dysfunction, which fails to sense glucose levels, hence reduces the signalling to insulin, resulting in high blood glucose levels[22]. Several studies have shown that moringa can act as an antidiabetic agent. A study has shown that the aqueous extracts of *M. oleifera* can cure streptozotocin-induced Type 1 diabetes and also insulin-resistant Type 2 diabetes in rats[23]. In another study, the researchers fed the streptozotocin (STZ)-induced diabetes rats with Moringa seed powder and noticed that the fasting blood glucose dropped[50]. Also, when the rats

Left: A moringa orchard in Maharashtra, India. (Photo: Crops for the Future)

were treated with about 500 mg of moringa seed powder/kg body weight, the antioxidant enzymes increased in the serum. This shows that the antioxidants present in moringa can bring down the reactive oxygen species (ROS) caused in the Beta-cells due to the STZ induction[8]. STZ causes ATP dephosphorylation reactions and helps xanthine oxidase in the formation of superoxides and reactive oxygen species (ROS) in Beta cells[24]. In hyperglycaemic patients, the beta cells get destroyed. Therefore, high glucose enters the mitochondria and releases reactive oxygen species. Since beta cells have low number of antioxidants, this in turn causes apoptosis of the beta cells[25,26]. This reduces insulin secretion leading to hyperglycaemia and in turn diabetes mellitus Type 2. The flavonoids like quercetin and phenolics have been attributed as antioxidants that bring about a scavenging effect on ROS. It can be hypothesised that the flavonoids in moringa scavenge the ROS released from mitochondria, thereby protecting the beta cells and in turn keeping hyperglycaemia under control[27,50].

- Anticancer Properties

Cancer treatments like surgery, chemotherapy and radiation are expensive and have side effects. *M. oleifera* can be used as an anticancer agent as it is natural, reliable and safe, at established concentrations. Studies have shown that moringa can be used as an anti-neoproliferative agent, thereby inhibiting the growth of cancer cells. Soluble and solvent extracts of leaves have been proven effective as anticancer agents. Furthermore, research papers suggest that the anti-proliferative effect of cancer may be due to its ability to induce reactive oxygen species in the cancer cells. Research shows that the reactive oxygen species induced in the cells leads to apoptosis. This is further proved by the up regulation of caspase-3 and caspase-9, which are part of the apoptotic pathway[30,31,64]. Moreover, the ROS production by moringa is specific and targets only cancer cells, making it an ideal anticancer agent. Tiloke et al.[30] also showed that the extracts increased the expression of glutathione-S-transferase, which inhibits the express of antioxidants.

- Other Diseases

Moringa can be used as a potent neuroprotectant. Cerebral ischaemia is caused due to obstruction of blood flow to the brain. This leads to reperfusion and lipid peroxidation, which in turn results in reactive oxygen species. Moringa with its antioxidants can reduce the reactive oxygen species, thereby protecting the brain[36,37]. *M. oleifera* is used to treat dementia, as it has been shown to be a promoter of spatial memory. The leaf extracts have shown to decrease the acetylcholine esterase activity, thereby improving cholinergic function and memory[38].

Studies have shown that moringa can be used as an anti-neoproliferative agent, thereby inhibiting the growth of cancer cells.

Adeyemi et al.[39] showed that moringa in the diet of rats can increase protein content and decrease levels of urea and creatinine in blood, preventing renal dysfunction.

Moringa decreased acidity in gastric ulcers by a percentage of 86.15 per cent and 85.13 per cent at doses of 500 mg and 350 mg respectively, and therefore can be used as an antiulcer agent[40].

Moringa is prescribed by herbal practitioners for patients with AIDS. Moringa is suggested to be included in the diet, with the view of boosting the immune system of HIV-positive individuals. However, more research is essential to validate the effect of moringa on anti-retroviral drugs[41].

The hydro-alcoholic extract of moringa flowers reduced the levels of rheumatoid factor, TNF-alpha and IL-1 in arthritic rats. This proves that moringa can be a potent therapy for arthritis[42].

Microbial diseases are widespread and there is a need for antimicrobial agents, *M. oleifera* has been proven as a good antimicrobial agent[66]. A study by Viera et al.[43] has shown that the extracts of *M. oleifera* can act against bacteria like *Bacillus subtilis, Staphylococcus aureus* and *Vibrio cholera*. The antibacterial effects of the seeds were accounted for by the presence of pterygospermin, moringine and benzyl isothiocyanate[67].

Conclusion and Future Prospects

The research on *M. oleifera* is yet to gain importance in India or elsewhere. It is essential that the nutrients of this wonder tree are exploited for a variety of purposes. *M. oleifera* has great antidiabetic and anticancer properties. However, double blind studies are less prevalent to further substantiate these properties of moringa.

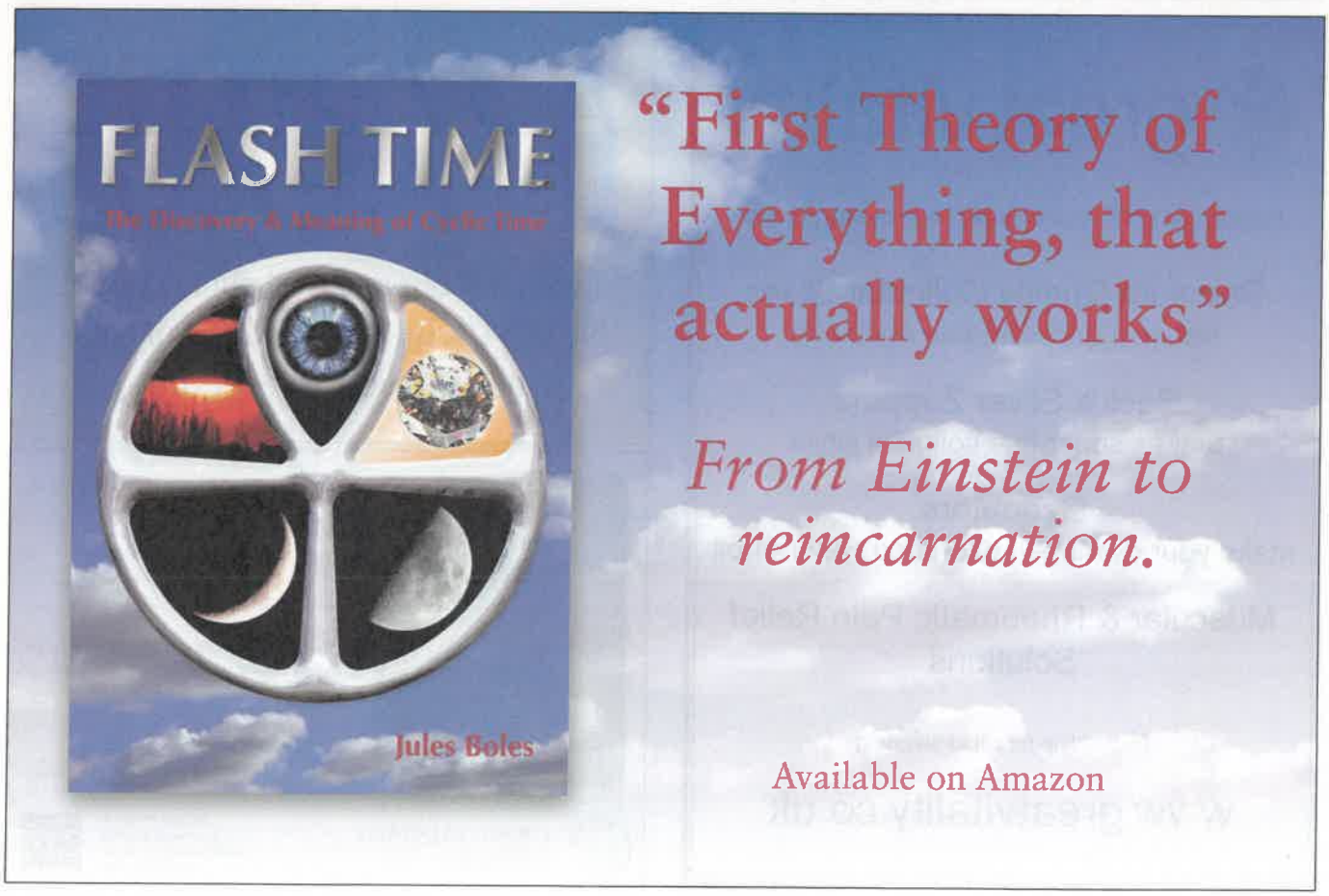
More studies are needed to corroborate the primary mechanisms of moringa as antidiabetic and anticancer agents. Several puzzling questions are unanswered. Research on the antioxidant nature of aqueous extracts on cancer cells needs further inquiry. Studies have proven that moringa causes ROS (reactive oxygen species) in cancer cells that leads to apoptosis or necrosis. However, the aqueous extracts also have antioxidants present in them. The exact mechanism of this irony is yet to be explored. The effect of environmental factors on the nutrient levels of leaves and other parts of *M. oleifera* grown across the globe requires further analysis.

Further research to isolate endophytic fungi and identify the enzymes or proteins from *M. oleifera* that are accountable for the anticancer and antidiabetic activity may lead to development of novel therapeutic compounds. Yet another focal area is to evaluate the commercial use of *M. oleifera* as a bio-coagulant. It might be a viable alternative for water purification. The demand for snacks in the market is huge. Hence moringa fortification in snacks to eradicate malnutrition has a twin advantage.

The tree as a native to India can become a great source of income for the nation if this potential for highly nutritional food is exploited by the industries and researchers by undertaking further research to corroborate earlier studies.

Editor's Note:

Due to space constraints, we are unable to include the complete list of article references. These may be found at https://tinyurl.com/y9nj2uhf.



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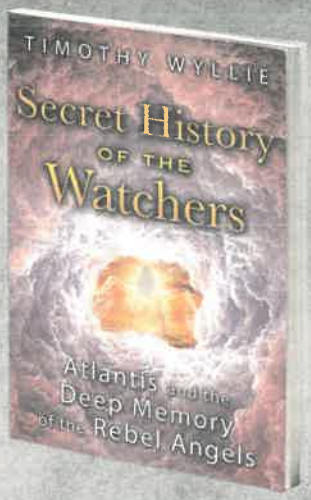

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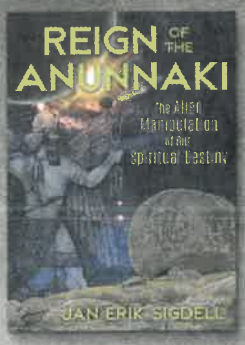

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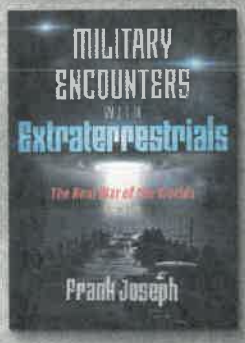

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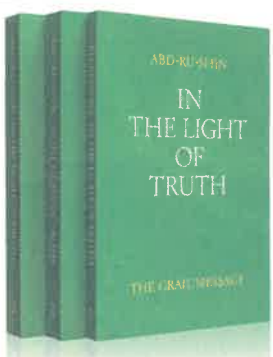

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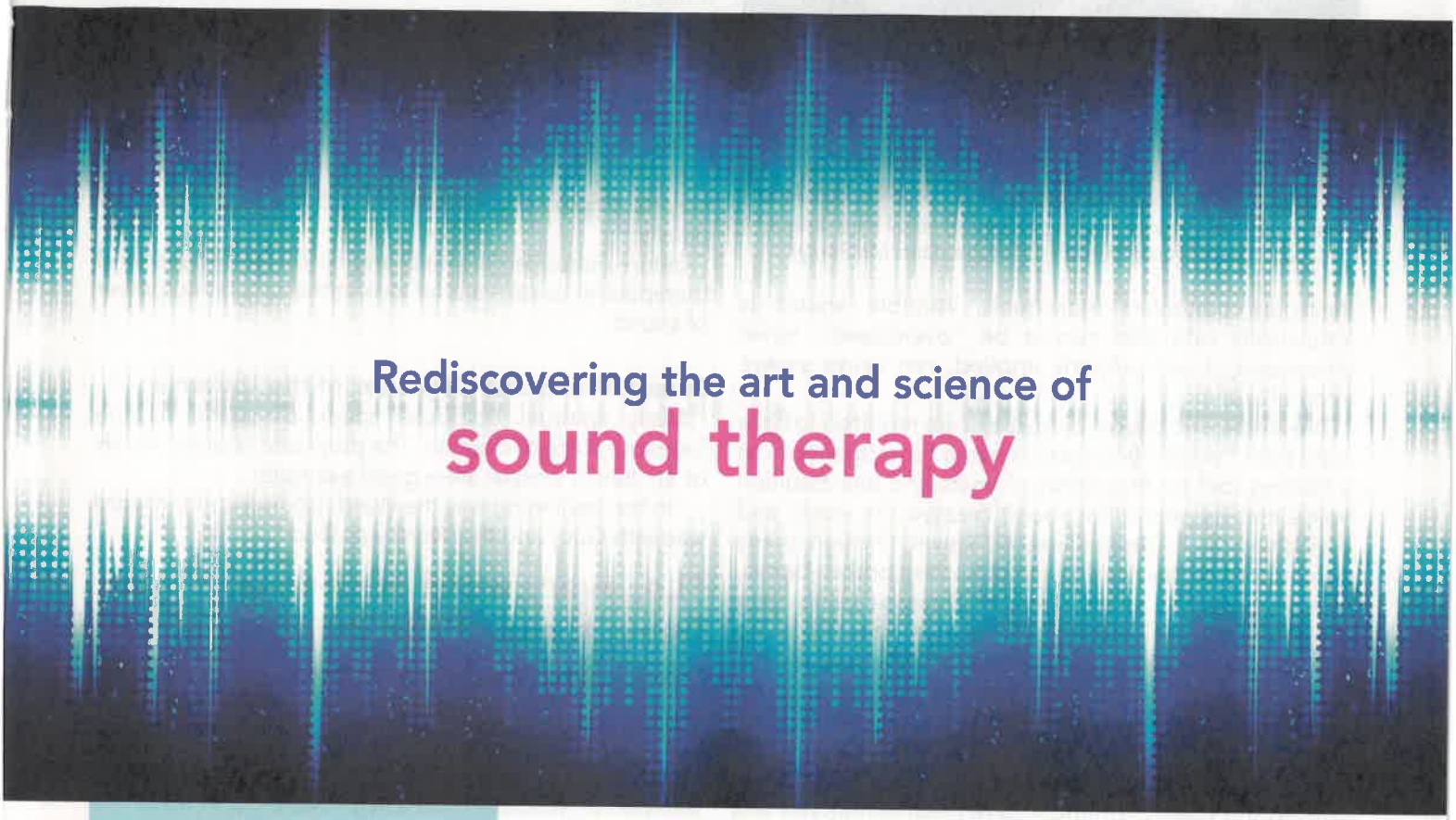


Rediscovering the art and science of sound therapy

Sound healing was commonly practiced in ancient times and is now again being used to enhance both psychological and physical wellness.

Sound will be the medicine of the future.
Edgar Cayce

by John Stuart Reid and Annaliese Reid

Several ancient cultures used the seemingly magical power of sound to heal, but sound therapy had almost disappeared in the West until 1927 when Professor R. Wood and his assistant, Loomis, discovered ultrasound—high frequency sound—and its medical properties.[1] With this discovery, research burgeoned and it is now established fact that ultrasound has powerful medical properties including its use in breaking up kidney stones and even shrinking tumours.[2,3,4,5]

In hospitals and sports injury clinics, in all parts of the world, therapeutic ultrasound is used to support or accelerate the healing of soft tissues and broken bones. In the 1980s, infrasound—very low frequency sound—and audible sound were also discovered to have healing properties and in recent years several commercial organisations have developed audible sound devices to support a wide range of physical ailments.[6,7,8]

The companies have documented many cases in which their sonic

A yidaki (didgeridoo) is an ancient musical instrument with therapeutic benefits. (Image: Dan McGarry)

therapies benefited individuals. Audible sound is intrinsically safe and cannot be "overdosed", while ultrasound, if not properly applied, can cause severe internal burning.

The Aboriginal people of Australia are reported to have used their "yidaki" (Indigenous name for didgeridoo) as a healing tool for thousands of years and one tradition holds that its primordial sound created the world and everything in it. Stories passed down through many generations of their culture tell of healing broken bones, muscle tears and many kinds of illnesses using their enigmatic musical instrument. To our knowledge no medical studies have been conducted in which the yidaki's healing power has been tested, although its acoustic output is in alignment with some modern audible sound therapy devices, so it is not surprising that it has healing properties. Studies of the benefits of playing the yidaki instrument have been conducted and a paper in the *Journal of Rural Health* concluded that yidaki playing alleviated the symptoms of asthma in school children.[9] Another study, reported in the *British Medical Journal*, concluded that it helped sleep apnoea.[10]

The ancient Greek philosopher and mathematician, Pythagoras of Samos, was reported to have used

The Dendera Sanatorium in Egypt, where patients were treated with music therapy. (Image: tokenrock.com)

therapeutic sound by using music to treat physical as well as emotional maladies. One of his biographers, Iamblichus, writes, "Pythagoras was of the opinion that music contributed greatly to health, if used in an appropriate manner...[by using] music in the place of medicine."[11]

Today, music therapy is an established clinical discipline widely used to assist people to overcome physical, emotional, mental, social and spiritual challenges.[12] There is some evidence that the ancient Egyptians used sound as medicine and a tradition exists in which Pythagoras is thought to have travelled in Egypt, suggesting that he may have gained his knowledge of this subject from their priests.[13]

Before discussing the mechanisms that underpin sound therapies let us take a brief look at the organising power of sound.

Sound: Primordial Organiser of the Universe

Many spiritual traditions speak of sound as the formative force of creation. The prophetic opening words of St. John's Gospel are a good example:

"In the beginning was the Word, [sound] and the word was with God, and the Word was God."

"Lo, every word of god came into being through the thoughts of the mind and the command by the tongue."

Another example is that of the Vedic Brahmanism tradition of northern India (circa 1500 BCE) in which the theme is strikingly similar to St John's Gospel, "In the beginning was Brahman, with whom was Vak [the word] and the word is Brahman...by that word...he created all things whatsoever."

A final example, of many, is that of the inscription on the Shabako stone in the British Museum, considered by Egyptologists to be one of the most important hieroglyphic texts and second only to the Rosetta Stone. The Shabako Stone text tells of the god Ptah, the cosmic architect who created the entire Cosmos simply by uttering words. Predating the Old and New Testament by hundreds (and possibly thousands) of years, lines 56-57 of the ancient Shabako Stone text state: "Lo, every word of god came into being through the thoughts of the mind and the command by the tongue."

The prophetic nature of such spiritual traditions has come to light due to recent studies pointing to sound (rather than gravity) as the prime organising force of all matter in the early Universe.[14] Sound cannot travel in the vacuum of space but sound can travel wherever matter is dense enough to allow atomic particles to collide; scientific theory suggests that the early Universe was filled with high density particles during the first 380,000

Shabako Stone (Image: British Museum)

years of creation. It is this process of collisions between atomic particles that provides a clear definition of sound as the transfer of vibrational information at the moment of collision between any two atoms or molecules.

Sound may also have been a prime mover in the creation of life. It is generally held that life began in the vicinity of hydrothermal vents on the ocean floor, places where (even today) hot, mineral-rich gases bubble up from Earth's core into the seawater, making contact with molten lava. Yet, the structuring and organising force that triggered life has always eluded theorists.

Could it be that sound, one of the most potent organising forces in the Universe, was involved?

Although invisible, sound has holographic properties and has the power to structure matter at the atomic scale. In water sound acts to form "sonic scaffolding" that causes molecules to coalesce in an orderly manner. This dynamic, sonic mechanism may have sparked life.

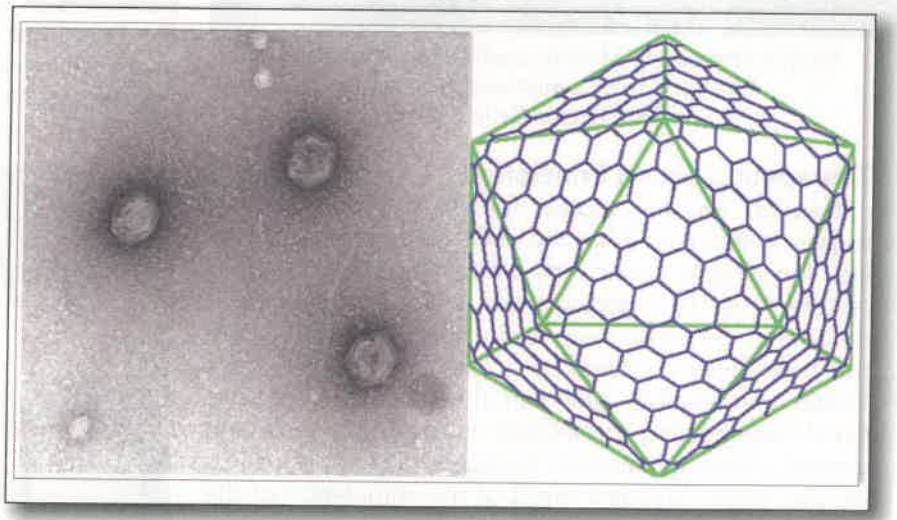
The Shape of Sound and Life

The CymaScope is the world's first scientific instrument that allows us to study the visual geometry created when sound encounters a membrane or fluid medium. ("Cyma" derives from the Greek, "kyma," meaning wave). The device creates sound images called "CymaGlyphs" that are the imprint of sound on the surface and subsurface of pure water. Pure sinusoidal sounds contain many mathematical ratios, perhaps the most important of which is *Phi*, often referred to as the "Golden Mean" and is the ratio of 1:1.618. Phi is prevalent in all living things, suggesting a link between sound and life, and Gyorgy Doczi's wonderful book, *The Power of Limits*, illustrates this point with great flair. He analyses sea creatures, shells, butterflies, flowers and many other life forms to validate the Phi ratio as one of the defining characteristics of life.

Geometric sonic structures, typically containing the Phi ratio, are commonly observed with the CymaScope instrument and provide us with a hypothetical model for the way in which the earliest life forms may have been shaped in the ancient seas. The surfaces of microscopic bubbles, created near hydrothermal vents, could have been host to geometric patterns of sonic vibration, providing nodal points in which the building blocks of life found safe haven. Simple creatures that exhibit clearly defined geometry, such as diatoms and starfish, offer support that sound may have been involved in the triggering and/or structuring of life.

A virus with a geometric morphology and a lineage stretching back more than three billion years also provides some support for this hypothesis and was discovered in the hot springs of Yellowstone National Park, leading to the intriguing proposal that the earliest life forms may have been viruses.[15]

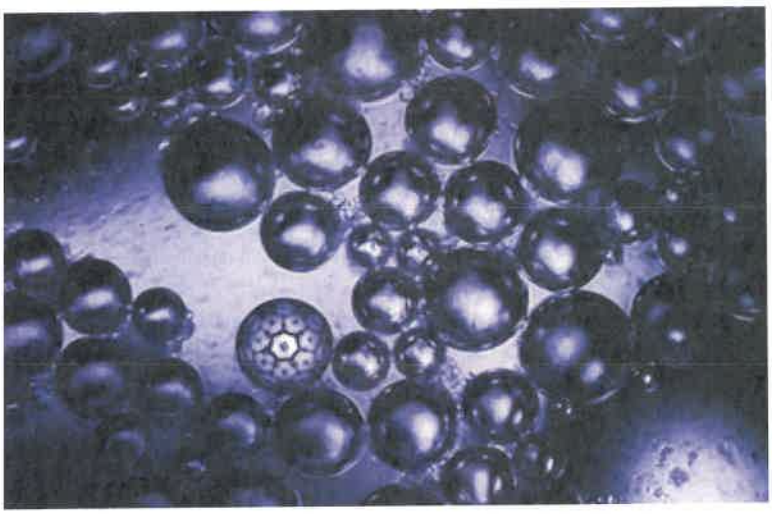
One of the greatest mysteries in understanding how life came into being concerns the helical nature of RNA and DNA. One possibility stems from CymaScope research in which vortices can be created in water by pure low frequency sounds in both the macro and micro realms,



A Transmission Electron Micrograph of "Sulfolobus Icosahedral Turreted Virus" found in a thermal pool of Yellowstone National Park. On the right, the unique lattice of this icosahedral virus is shown superimposed upon a cryo reconstruction. (Image: Dr George Rice, Montana State University)

providing a form of scaffolding to which the molecules of life could have adhered. The dynamics necessary to create microvortices in the ancient seas may have derived from the low frequency sounds generated by hydrothermal vents. The pure form of sound needed to power this mechanism may have derived from a certain class of hydrothermal vent bubbles. Pure tones have been detected emitting from hydrothermal vents and the largest vent bubbles are thought to act like Helmholtz Resonators, effectively tuning out all frequencies except those that resonate with the gas cavity formed by the bubble.[16]

It is intriguing to think that naturally occurring microspiral vortices in water, created by pure sounds, may be part of the mechanism contributing to the origin of life. Although further research is needed to clarify this hypothesis it is clear that sound and life are inextricably linked. (For an expanded treatise on sound as a life-creating force, see "Sound, the Trigger for Life" at www.cymascope.com/cyma_research/biology.html)



Artist's impression of sonic scaffolding appearing on the surface of a microscopic bubble. (Image: Dustin Schmieding)

Therapeutic Sound Principles

If sound was the trigger for life it should not be surprising that sound has the ability to support and heal life. Put simply, sound has almost magical power to restore order to organisms that are malfunctioning—magical in the sense that we don't yet fully understand the mechanisms at work. For example, studies have shown that audible sound in the form of music has significant healing properties in both humans and animals, inferring that music therapy is potentially healing on two levels: first as a result of the stimulation of the brain's pleasure centres, leading to hormonal secretions and "feel good" effects, and second, due to the physical effects of sound at the cellular level.[17, 18, 19]

Regarding the physical effects of sound at the cellular level, two main categories exist: *destructive* and *constructive* sound therapies. Lithotripsy is a well-known medical technique that employs high intensity ultrasound to shatter kidney stones and gallstones and employs a destructive sonic principle.[20] However, therapeutic ultrasound can employ either a constructive or a destructive sonic effect, depending on how it is deployed. For example, ultrasound can accelerate cellular division in soft tissues and accelerate bone growth—a constructive principle—while high intensity focused ultrasound (HIFU) can be used to shrink tumours —a destructive principle.[21]

High Intensity Focused Ultrasound (HIFU). Professor Gail ter Haar's experimental method for destruction of cancer masses. (Institute of Cancer Research, Royal Marsden Hospital, London)

Therapeutic audible sound generally employs a constructive sonic principle, but an intriguing possibility exists to use audible sound destructively in order to shrink tumours.[22, 23] Dr James Gimzewski, of UCLA California, has taken a novel approach to studying cellular function.

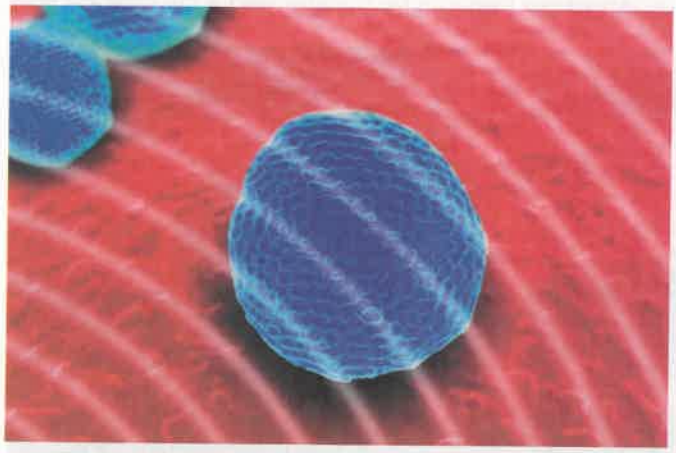
He uses an atomic force microscope to "listen" to the sounds emitted by cells. The focus of this new science, which he has named "sonocytology," is mapping the pulsations of a cell's outer membrane, thus identifying the "song" of the cell. Gimzewski's work suggests that every cell in our bodies has a unique sonic signature and "sings" to its neighbours. Sonocytology could be developed into a potentially powerful diagnostic tool for

Professor James Gimsewski and his sonocytology research team, UCLA Berkley

identifying the sounds of healthy cells versus those of injurious ones. It also offers an even more exciting prospect: the ability to play the destructive sounds of rogue cells back to themselves greatly amplified so that, by the simple law of resonance, the hostile cells implode and are destroyed. In this scenario there would be no collateral damage to surrounding cells since healthy cells would not be resonant with these frequencies. Resonance in the context of sound therapy can be described as the frequency of vibration that is most natural to a specific, cell or organ. This innate frequency is sometimes referred to as the prime resonance of the cell or organ. The resonance principle does not necessarily require the living system to emit a sound.

The mechanism(s) by which constructive sound therapies trigger the body's healing response are unknown but one possibility concerns the fact that when a system of cells is traumatised, for example due to physical trauma or by invasion of a pathogen, they go into a form of hibernation known as the G_0 phase, or quiescent phase, in which they are effectively asleep and not replicating.[24] To rejoin the normal cell cycle leading to normal replication and healing, the cell requires either good nutrition or rest or both, but, hypothetically, exposing quiescent cells to audible sounds of the correct frequencies acts as a catalyst that stimulates the cell to move to the G_1 phase in which cells prepare for replication.[25] We monitored a healthy yeast cell's "song" spectrographically and compared it with the spectrograph of the same cell after it had been traumatised by acid. (The sound files were from Dr Gimzewski's lab). It was clear that the traumatised cell emitted far higher frequencies, as if the cell was screaming. Applying sounds to a system of traumatised cells may stimulate the cell's integral membrane proteins (IMPs) and imprint a cymatic pattern upon the cell that provides a form of energetic sonic nourishment, causing its frequencies to return to normal.

Modern audible sound therapy devices are non-invasive and are essentially like playing music to the body; in fact many traditional sound therapy music-based instruments, such as the harp, the gong, Tibetan bowls and crystal bowls emit rich soundscapes that provide sonic nourishment for cells. The piano and harp, in particular, are important because all of their sounds are harmonically related to each other; each higher frequency created by a piano or harp string is mathematically related to the string's fundamental frequency, regardless of the choice of concert pitch. (The fundamental frequency of a given piano or harp string is called its "1st harmonic", and the same string's 2nd harmonic is twice the fundamental frequency, and the string's 3rd harmonic is three times the fundamental frequency and so on.) This natural order means that when cells receive harp or piano sounds they are better able to absorb the sonic energy. In the case of gongs and Tibetan bowls, although their harmonic output is jumbled they can provide sonic nourishment for cells provided they are played at low or moderate levels; if played loudly such sounds would be a stressor for cells. However, audible sound therapy devices employ carefully targeted frequencies, unlike the broad range of frequencies provided by music and music-based instruments. This targeted approach has been found to be highly efficacious and one company (Cyma Technologies) is pioneering a new era in therapeutic sound therapy devices in which specific sets of frequencies are employed, depending on the nature of the malady to be supported. We can envisage a future in which diagnostic and therapeutic beds, resembling a scene from a Star Trek sick bay, may become commonplace and in which sound therapy forms part of the clinician's armoury of healing modalities.



Cells immersed in therapeutic sound frequencies (artist's impression)

The Role of Intention in Sound Therapy

Sound therapy is a highly effective tool for the support of a wide range of health challenges and fortunately an individual does not need to believe in it for it to work. However, there is another factor that can greatly amplify the effectiveness of healing: creative intention. While mainstream medicine does not yet recognise the importance of a patient's intention, in contrast, most vibrational energy practitioners, including sound therapy practitioners, use a holistic approach that addresses both mind and body. When the power of intention is held, the chances of a successful outcome are intensified. Intention consists of using your focused thoughts, feelings and visualisations to attract whatever is desired, such as enhancing one's health.

American sound therapist, Jonathan Goldman, created this simple formula: Sound + Intention = Healing.

The power of intention involves consciously drawing on the universal field of energy. Utilising this potent universal force along with healing sounds has been found to dramatically accelerate the healing process. Many people fall into the trap of fear, or negative intention, particularly in regard to health issues. It is all too easy to fixate upon

the possible consequences of a health challenge rather than on the positive expectation of enjoying a healthy, vital life. The Universe, it seems, is neutral and will return in kind whatever we focus upon. Whether we are aware of it or not, we use the power of intention either positively or negatively every moment of every day. Our thoughts, feelings and imaginings are the templates for the results and experiences of our lives. In this context, like attracts like.

When using creative intention, there is the sense of being deeply inspired. (The word inspiration means inspirit.) We are motivated to respond to a deeper calling with a firm belief, an absolute knowing, that our desire has already been fulfilled. When we merge the mind's energising force with the universal field of energy for the purpose of healing and creation, our health and the quality of our lives can be transformed. One may ask how

it is possible to have absolute certainty about a desired outcome before there is any apparent proof. People tend to believe things only when they see them. However, the art of creative intention calls for a new way of thinking: when you believe it, you will see it.

It is highly beneficial to the creative process when you act as if you already have what you want. See, feel, and think as if your body is currently vital and whole. When you act as if your desired outcome has already happened, the subconscious mind cannot differentiate between what is factual and what is imagined and believes your intention is actual reality. The mind holds immense healing and creative powers and will continue to work on your behalf as long as you maintain your conscious focus of intention. Perhaps the most important element in "acting as if" is to feel the experience of having already manifested your desire.

Some people have used these and similar tools of intention but have not experienced the successful outcome for which they had hoped. Generally it is not because they have applied it incorrectly or missed an important element in the process. Their lack of success usually stems from unresolved issues and detrimental beliefs that are harboured as internal fears in the subconscious mind; issues so old and ingrained that the person may not even be aware of them.

Buried fear-based issues and limiting beliefs tend to set up an internal conflict. The conscious mind may want to create a desired outcome, but the overpowering, conflicting influence of unresolved issues and beliefs block success. Nothing can become a part of your reality unless your feelings and your conscious mind are in alignment with the more powerful subconscious mind. The magnificent power of intention fully engages when all systems are in alliance, when the thinking-feeling self aligns with the underlying belief system. Intention powered by the healing energy of sound is a key to improved health and other improvements in one's life.

Sound Therapy Case Studies

Cyma Technologies Inc. has underwritten a number of documented case studies to clinically validate their therapeutic sound device. Their therapeutic technique is called "cymatherapy."

Four brief Cyma Technologies examples are given below, along with links to case studies by the Medsonix company and a reference to the KKT, a sonic modality supporting spinal issues.

Only by undertaking and documenting case studies will audible sound therapy become accepted as a mainstream modality, leading to their use in hospitals and veterinary centres worldwide.

1) Racehorse Tendon Injury

A thoroughbred racehorse had sustained a major tendon lesion during a race and in such cases horses are usually put down or, at best, relegated to pasture. A return to racing after a severe injury is extremely rare. Throughout this study the horse was under the care of a veterinarian and regular sonogram imaging was used to document the progress of the recovery. The images clearly showed the return to normal homogeneous tendon cell integrity. The tendon of the horse not only healed completely using cymatherapy, but there were no traces of scar tissue whatsoever. The horse returned to racing. Clearly, while the above study refers to a horse, muscle and tendon injuries in humans are just as readily supported with sound therapy devices.

2) Knee Injury

A 56-year-old woman was involved in a car accident that left both knees debilitated. She needed the assistance of a walker or cane to move around and her condition was worsening.

She was unable to sleep more than an hour or two at a time because of severe pain. Her doctor informed her there was nothing more he could do when he found that her knee joints were worn down to bone-on-bone. He recommended that she resign herself to buying a power wheelchair and expect to use it the rest of her days. This

was harsh news for a woman who had led an active, athletic life. As a last resort, she had ten therapeutic sound sessions using cymatherapy.

Her life has turned around as a result. Today, she can walk—even run. She says, "I can climb flights of steps, dance, go bowling, garden, and play golf, besides doing all of the things I used to do prior to the accident." She continues, "I have been given the extraordinary gift of having my life back, and the way I want to live it."

3) Shingles

A woman had a case of shingles on her upper chest and back. She could hardly stand up as a result of the severity of the pain. The only help her doctor could offer was to prescribe a drug to prevent a recurrence. It took the shingles about three months to heal but two years later the shingles reappeared in exactly the same areas. After the second cymatherapy treatment she reported that the areas tingled and then began to disappear. After using cymatherapy for four more days the shingles had completely disappeared and have not recurred.

4) Dental abscess

A client who had a tooth extraction appointment with her dentist decided to try cymatherapy as a last resort. She was suffering from a very painful abscessed tooth and had been told that the root had disengaged from the jawbone. She was taking 15 ibuprofen tablets a day for the excruciating pain. The tooth immediately began to feel better after a few days of sound healing and she was able to cut back on the painkillers. After half a dozen cymatherapy sessions she was totally pain-free and she retained her tooth. Her dentist was amazed.

Finally, here are some other medical studies and stories that report on the power of sound as a healing modality:
Medsonix company case studies: "The Effects of a Low Frequency Acoustic Waveform on Osteoarthritis: A Pilot Study", https://tinyurl.com/yapwv67s; and Acoustic Waveform Study: https://tinyurl.com/yclyfx9h
KKT Spine treatment: https://tinyurl.com/y9d6afxm
Sound for Alzheimer's: https://tinyurl.com/yd96h5qv
Sound for Fibromyalgia: https://tinyurl.com/ybe7wrgx
Sound help for impotence: https://tinyurl.com/yb49oedx
Music making may help keep mind in tune in old age: http://www.world-science.net

About the Authors

Acoustics pioneer, John Stuart Reid, is a man with a mission; a mission to educate, to inspire and to excite the world in the field of visible sound, known to science as "Faraday Waves" but known to a quickly-growing popular readership as "cymatics". Since sound underpins almost all matter in the Universe and, Reid believes, was a potent force in the creation of life in the primordial oceans, he reasons that it naturally carries the power to heal life, a concept he shares wherever he speaks and lectures. But it is his invention of the CymaScope that has changed our perception of sound forever. Now, sound is out of hiding and the old adage "seeing is believing" takes on an important new meaning—seeing sound allows us to understand this omnipresent aspect of our world and Universe, better, fuller, deeper. His web site can be found at www.cymascope.com.

Annaliese Reid has studied spiritual philosophies for most of her life and is interested in their practical application and the wisdom they contain to enrich our lives. In her previous life she worked as a seminar leader for an international self-development company. Annaliese later trained as a hypnotherapist and worked as a counsellor for traumatised individuals and subjugated women. She also worked in the field of energy medicine for many years, including sound therapy, and was instrumental in preparing the original training manual for Cymatherapy practitioners. She was fortunate to recognise her gift with words at a young age and is now focused on helping others to achieve success through their writing. Annaliese is particularly interested in the effects of sound on cellular matter. Annaliese has been blessed to work with some great authors and is currently editing the second in the Dr Fuddle series of children's books.

Endnotes

1. Fyfe MC, Bullock MI, "Therapeutic ultrasound: some historical background and development in knowledge of its effect on healing", *Aust J Physiother*, 1985;31(6):220-4, https://tinyurl.com/y6u6yrx5
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Saunière Society

Saturday 6th October 2018

Newington Village Hall, Newington, Folkestone, Kent, CT18 8AU

(Junction 12 off the M20 • Bus route 17, Stagecoach hourly service)

Doors 9:00am • Lectures 9:30am–5:30pm

Members £30, Non-members £35

Entry includes buffet lunch • Refreshments available throughout • Please note we no longer accept credit / debit cards

Speakers include:

Rat Scabies Chairman of the Saunière Society will discuss the Rennes-le-Château tombs and parchments as mentioned in the Philippe de Chérisey letters.

Jeremy Harte Curator of Bourne Hall Museum, Surrey, and author will lecture on 'Talk of the Devil'.

Ahmed Osman Author of many books including 'Stranger in the Valley of the Kings' presents his new book 'The Egyptian Origins of King David and the Temple of Solomon'.

David Barrett Author and researcher presents the 'Confused Origins of Freemasonry: Why it was formalised in 1717 with discussion on the Knights Templar and Rosicrucianism'.

Lynn Picknett Author of 'The Templar Revelation', 'Turin Shroud' and 'The Secret History of Lucifer' will challenge us with 'Mary Magdalene: God's wife, whore, priestess or strident harpy with a lust for glory?'

Saturday 10th November 2018

Saunière Society Symposium

We Seek The Truth

Rosslyn Sinclair Lodge 606
21 Main Street, Roslin, Midlothian, EH25 9LB

Doors 9:00am • Lectures 9:30am–5:30pm

Members £30, Non-members £35

Entry includes lunch • Please note we no longer accept credit / debit cards

Speakers include:

Stuart McHardy Traces of Goddess beliefs in various landscapes.

Dale Bilsland Nuremberg caves and Hitler's treasure including the Spear of Destiny.

Robert Feather The Spear of Destiny examined.

Brian Allan Haunted people, haunted places.

Mary Craig Kaspar Hauser, the mystery boy of Nuremberg.

We hope to organise a private visit to Rosslyn chapel after the symposium should there be sufficient interest, followed by a dinner.

Speakers books together with new and rare esoteric publications, DVDs & CDs will be available to purchase at both meetings. For further details, tickets, and to enquire about joining the Saunière Society, please contact:

Joy Millar (Secretary), Saunière Society, Arpinge Court, Arpinge, Folkestone, Kent, CT18 8AQ Telephone 07842 426751 Email saunieresociety1@gmail.com

We reserve the right to change the programme and / or speakers without notice, in which event no refund would be due except by prior arrangement.

PLEASE VISIT WWW.SAUNIERE-SOCIETY.ORG

Magic Mushrooms

Psilocybe pelliculosa
Image: shroom360

New research on psilocybin and its benefits

by Marco © 2018

Much like the carefully orchestrated de-legalisation of cannabis during the 1930s, there was a powerful decades-long misleading campaign against psilocybin mushrooms which caused a deep-rooted fear and a subsequent public rejection of this substance.

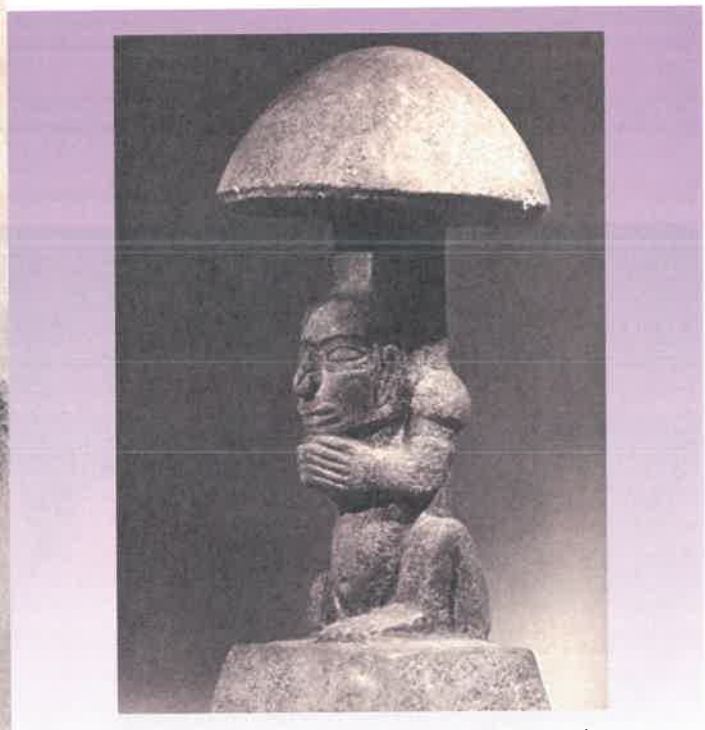
Just as cannabis is now finally seeing an increase in public trust, several studies have been published which show extremely promising results for the use of psilocybin mushrooms in patients who suffer from anxiety and depression, or are battling addiction, and for patients who are terminally ill, helping them to alleviate their fear of death.

Psilocybin can also be exceedingly helpful for individuals who don't have full blown depression or anxiety. The pace and structure of modern life is creating symptoms of these disorders in practically everyone, and the number of people afflicted is constantly on the rise.

Psilocybin mushrooms are currently scheduled as a class III narcotic in Canada. What's important to consider when we look at "hard drugs" is the level of human tampering with the substances.

Cocaine is made from the coca plant (approximately one per cent of street cocaine is pure plant material), and heroin is derived from the poppy plant, but both of these natural substances undergo a series of production techniques which include adding numerous harmful chemicals, thus producing a very harmful and highly addictive narcotic.

On the other hand, substances like cannabis and



Left: The "Bee-Shaman" from Tassili n'Ajjer, with mushrooms in his hands **Right:** Mushroom Stone c. 1,000 BCE – 500 CE, Guatemala City

mushrooms require absolutely no human alterations to have effect and they are typically used in their natural plant form.

In the same way that the THC cannabinoid in cannabis is responsible for the psychoactive effects we experience with pot (as well as being responsible for a lot of its medicinal benefits), psilocybin mushrooms have their own compound, called psilocybin.

In the following section we will acquaint ourselves with psilocybin mushrooms a bit better, before moving on to the studies which demonstrate their extensive therapeutic potential.

Psilocybin Mushrooms

Mushrooms are a part of the fungi kingdom, distinctly different from animals and plants. They are characterised by their flesh-like body which consists of the stem, the cap, and the gills that are located on the underside of the cap, where the mushroom creates microscopic spores that are its asexual reproductive units.

We don't want to get too technical regarding mushrooms in general, so we'll concentrate on the psilocybin variety from now on.

History of Use

There are several prehistoric rock art drawings which show (quite probably) the importance of psychoactive psilocybin mushrooms to the artists who drew them.

One such is in Spain, near Villar del Humo, and is approximately 6,000 years old, and the other is in Tassili n'Ajjer (a national park in the Sahara desert), dating from 7,000 to 9,000 years ago.

Terence McKenna, who was a famed psychonaut, author, and an avid advocate for the responsible use of naturally occurring psychedelic substances, studied the artwork and culture of Tassili n'Ajjer. The rock paintings from the Neolithic era depict domesticated cattle, and McKenna concluded that psilocybin mushrooms would have grown from the dung of the animals, which is a very common occurrence. The psychoactivity of the mushrooms would have heavily influenced and further developed the spiritual and religious systems of the Tassili n'Ajjer people, and without the domestication of cattle that would not have happened.

In South America, numerous indigenous cultures used psilocybin for spiritual, religious and divination practices. This was of course halted once the Spanish conquistadors established their rule on the continent, but in remote areas these practices endured uninterrupted.

The Aztec word for one of the *psilocybe* species was *teōnanācatl*, which translates to "divine mushroom". The Catholic missionaries believed that the mushrooms were a means to communicate with demons and devils and forced the change from teōnanācatl to the sacrament of Eucharist.

Other religious and divinatory tools like peyote and ayahuasca were also strictly forbidden, but fortunately because of the vast rainforest and generally rough terrain, these practices persisted.

Psilocybin Mushrooms in Modern Times

In 1953, a New York banker by the name of Gordon Wasson first sat in on a "mushroom velada"—a carefully planned psychoactive ritual, in Oaxaca Mexico. It was led by Maria Sabina, who was a Mazatec curandera (a natural healer).

He returned for the velada in 1954 and 1955, and two years later, his article on the experiences and the importance of psilocybin mushrooms was published in *Life* Magazine, which was the first ever large-scale media coverage of their existence and effects.

In 1958, psilocybin was isolated by none other than Albert Hofmann, who also unintentionally discovered the semi-synthetic lysergic acid diethylamide (or LSD) in 1938.

Two years later, Sandoz Pharmaceutical (now a subsidiary of Novartis), a Swiss Pharma giant where Hofmann worked, started to produce pure psilocybin.

Timothy Leary

As one of the biggest icons of the counterculture movement, Timothy Leary made an impressive impact during the 1960s. Leary was a clinical psychologist working at Harvard University and after he tried (on separate occasions) both psilocybin mushrooms and synthesised isolated psilocybin in 1960, he saw fantastic curative potential from the use of these psychedelics, under controlled and safe environments.

Leary and his Harvard colleague Richard Alpert began conducting experiments with graduate students from the prestigious university, administering psilocybin in the Harvard Psilocybin Project, and the Marsh Chapel Experiment at the University of Boston (also called The Good Friday Experiment).

He and his colleagues also oversaw one study with inmates, the Concord Prison Experiment, which lasted from 1961 to 1963.

All of this was possible because psilocybin mushrooms weren't listed as a banned substance in the US at the time, or anywhere else in the world for that matter.

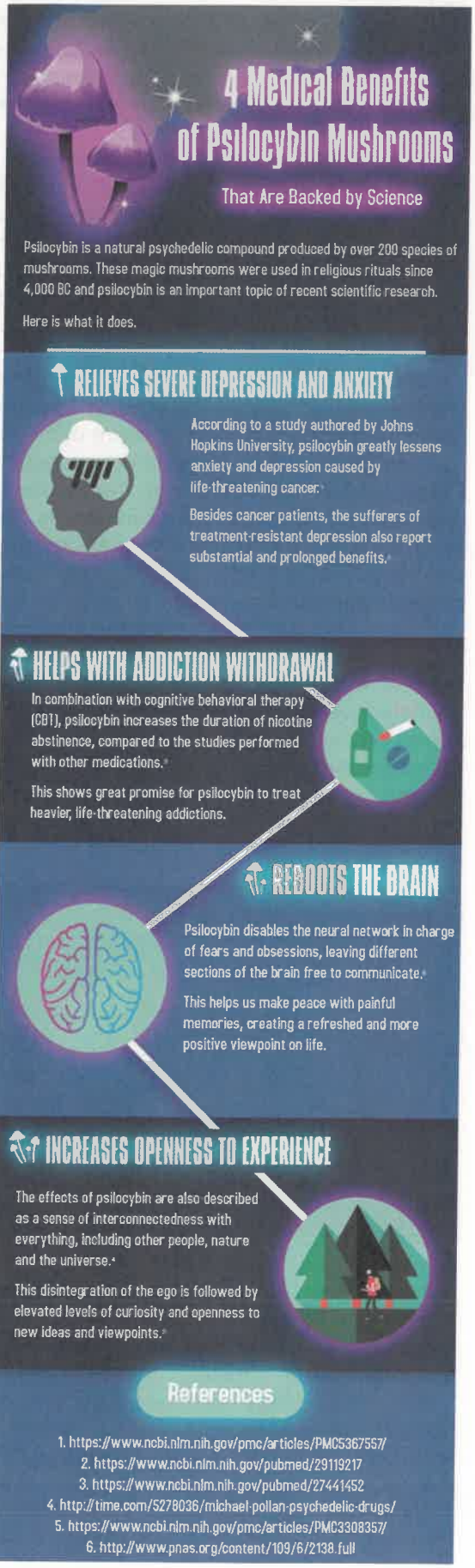
The questionable methods of experimentation and student involvement subsequently got both Leary and Alpert fired from their positions at Harvard, but the results of their research can speak for themselves.

The cultural and political climate in the United States was also an important factor in why their work generated so much controversy and disapproval from both the general population and the government.

The Marsh Chapel Experiment

Created in 1962 by Walter Pahnke who was a graduate theology student at Harvard Divinity School at the time and supervised by Leary and other members of the Harvard Psilocybin Project, this experiment was looking to find if psilocybin would induce profound religious or mystical experiences in subjects who were already religiously inclined.

From a group of 20 volunteers (who were all divinity graduates of Harvard), 10 were given 30 mg of psilocybin, while the other 10 were given niacin, which acted as an active placebo, causing physiological changes like tingling, face flushing and an increase in body temperature.


4 Medical Benefits of Psilocybin Mushrooms
That Are Backed by Science
Psilocybin is a natural psychedelic compound produced by over 200 species of mushrooms. These magic mushrooms were used in religious rituals since 4,000 BC and psilocybin is an important topic of recent scientific research.
Here is what it does.
RELIEVES SEVERE DEPRESSION AND ANXIETY
According to a study authored by Johns Hopkins University, psilocybin greatly lessens anxiety and depression caused by life-threatening cancer.
Besides cancer patients, the sufferers of treatment-resistant depression also report substantial and prolonged benefits.
HELPS WITH ADDICTION WITHDRAWAL
In combination with cognitive behavioral therapy (CBT), psilocybin increases the duration of nicotine abstinence, compared to the studies performed with other medications.
This shows great promise for psilocybin to treat heavier, life-threatening addictions.
REBOOTS THE BRAIN
Psilocybin disables the neural network in charge of fears and obsessions, leaving different sections of the brain free to communicate.
This helps us make peace with painful memories, creating a refreshed and more positive viewpoint on life.
INCREASES OPENNESS TO EXPERIENCE
The effects of psilocybin are also described as a sense of interconnectedness with everything, including other people, nature and the universe.
This disintegration of the ego is followed by elevated levels of curiosity and openness to new ideas and viewpoints.
References
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2. https://www.ncbi.nlm.nih.gov/pubmed/29119217
3. https://www.ncbi.nlm.nih.gov/pubmed/27441452
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5. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3308357/
6. http://www.pnas.org/content/109/6/2138.full

After being given psilocybin (and some the niacin placebo), the volunteers were taken to a Good Friday sermon at the chapel of Boston University, under the guidance and supervision of Pahnke, Leary and the rest of the research team.

One participant asked to be physically kept inside the chapel, while another had to be tranquillised with Thorazine, because he had a panic attack. These reactions could possibly have been caused by the emotional setting for the theology students, and could perhaps have been avoided, at least to some extent, if the experiment had been conducted in a more neutral place.

In a survey after the experience, out of 10 participants, eight expressed in their own words that this was the single most important mystical event of their lives.

In a follow-up survey 25 years later, conducted by Rick Doblin (with contributions from the assistants from the original experiment apart from Pahnke who died in 1971), all of the eight participants who reported a deep and meaningful experience, felt this way two-and-a-half decades later. Doblin added:

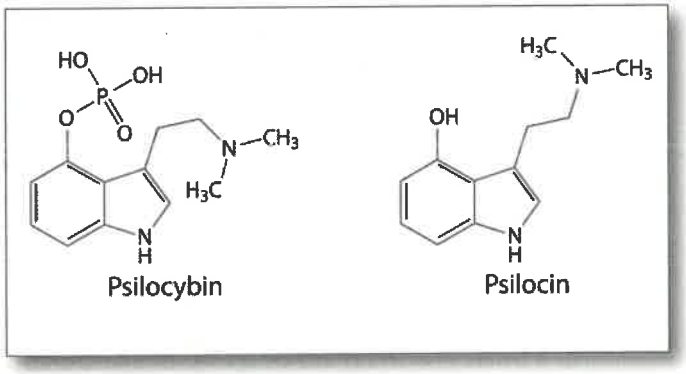
"Everyone I talked to who had the psilocybin felt after 25 years of reflection that the experience was a genuine mystical experience. It was a clear viewing of some ultimate level of reality that had a long-term positive impact on their lives".[1]

This additional information confirmed that psilocybin can be used as an entheogen, and also that the experience has an incredibly long and meaningful impact on the consciousness and psyche.

Leary did fascinating research and experiments on psilocybin and LSD during the 1960s, but because this was a such a questionable topic at the time, his work was just too outrageous and was considered downright dangerous by the scientific community.

Luckily, others have continued the lineage of psilocybin research (especially in recent years), and the advancements in science are extremely beneficial for the deeper understanding of psilocybin and its effects.

Before we check out the most interesting contemporary research, let's acquaint ourselves with how exactly psilocybin works, or more precisely, how science understands it so far.



Psilocybin (4-PO-DMT) and psilocin (4-HO-DMT)

Understanding Psilocybin

Psilocybin (4-phosphoryloxy-N,N-dimethyltryptamine, or 4-PO-DMT), is an organic alkaloid molecule, in the tryptamine chemical class.

Tryptamines are monoamine alkaloids which exist in three biological kingdoms; animals, plants and fungi.

Structurally similar to the amino acid tryptophan, tryptamines derive their name from this amino acid.

Tryptamines are found in small amounts in the mammalian brain, and are hypothesised to act as both a neurotransmitter, and a neuromodulator.

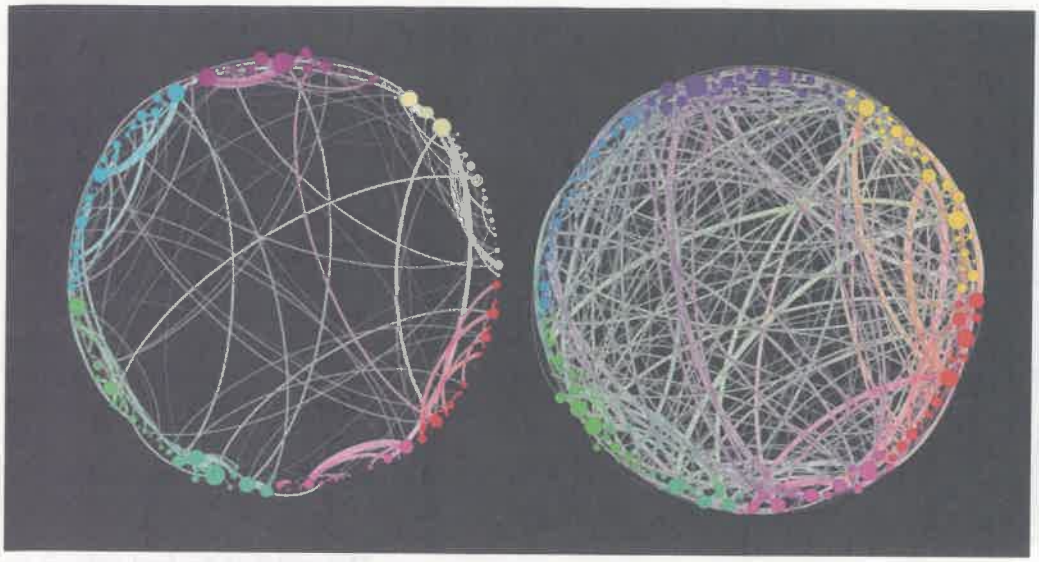
In a survey after the experience, out of 10 participants, eight expressed in their own words that this was the single most important mystical event of their lives.

So far, a few neurotransmitters have been identified to derive from tryptamine, such as serotonin, and melatonin which is produced in the pineal gland.

Psilocybin is thought to be inactive before it dephosphorylates (loses a phosphate group) by hydrolysis (which is the cleaving of specific chemical bonds by water addition), and this dephosphorylation process turns it into psilocin (or 4-HO-DMT).

Psilocin is believed to produce its psychoactive effects by influencing the 5-HT2A receptor (one of several serotonin receptors), as a partial agonist (agonist is a chemical which binds to a receptor, causing it to perform a specific biological reaction or response).

Studies have shown that in high doses psilocin also influences the noradrenergic system, but because of the decades-long worldwide illegality of psilocybin mushrooms the research and precise mechanisms of functioning of both psilocybin and psilocin are still in their starting phases and remain largely under-investigated and poorly understood.



MRI scans of neural connections in the sober brain (left), and under the influence of psilocybin (right)

Above is a diagram from a study titled "Homological scaffolds of brain functional networks" showing MRI scans of neural connections in the sober brain (left), and under the influence of psilocybin (right). Width of the links is proportionate to their weight; and node size is proportionate to their strength. The different parts of the brain communicate much more with each other on psilocybin, which will be explained additionally later on.[2]

Contemporary Scientific Research

In a wonderful Ted Talk (which you should definitely watch), Dr Roland R. Griffiths—Johns Hopkins University, Professor in the Departments of Psychiatry and Neurosciences—explains his research[3] on the use of psilocybin in controlled and safe conditions on healthy volunteers who haven't used psychedelics before.

The psilocybin created a mystical and spiritual experience for a large percentage of participants, and the effects of this experience were long lasting and meaningful, causing positive changes in behaviour, attitude and general outlook on life.

Griffiths and his team recently finished another study[4], but on patients with life-threatening cancer diagnoses, looking into how psilocybin can help them with their depression and anxiety.

Another pilot study[5] shows the incredible potential of using psilocybin for addiction disorders, with the researchers focusing on nicotine, which is one of the most addictive substances. Psilocybin appears to have great potential for addiction related issues.

Last but not least is a study examining the effects of psilocybin for patients who suffer from severe treatment-resistant depression disorders[6].

In all these studies, Dr Griffiths points out, psilocybin treatment shows a staggering 70–80 per cent efficacy, and that with additional funding and research, the positive effect of psilocybin would prove themselves as a prime mechanism for numerous psychological disorders.

Some people did experience considerable levels of fear and anxiety during the controlled sessions, but because of the safe environment and trained professionals, essentially no long term adverse effects were reported.

His team also conducted an online survey on approximately 2,000 individuals who used psilocybin on their own, and the number of people who reported severe anxiety and fear was around 40 per cent.

The results of this survey were paradoxical to an extent, because 40 per cent of these respondents reported that the "mushroom trip" was among the top five most challenging experiences of their life, but also among the top five most meaningful ones.

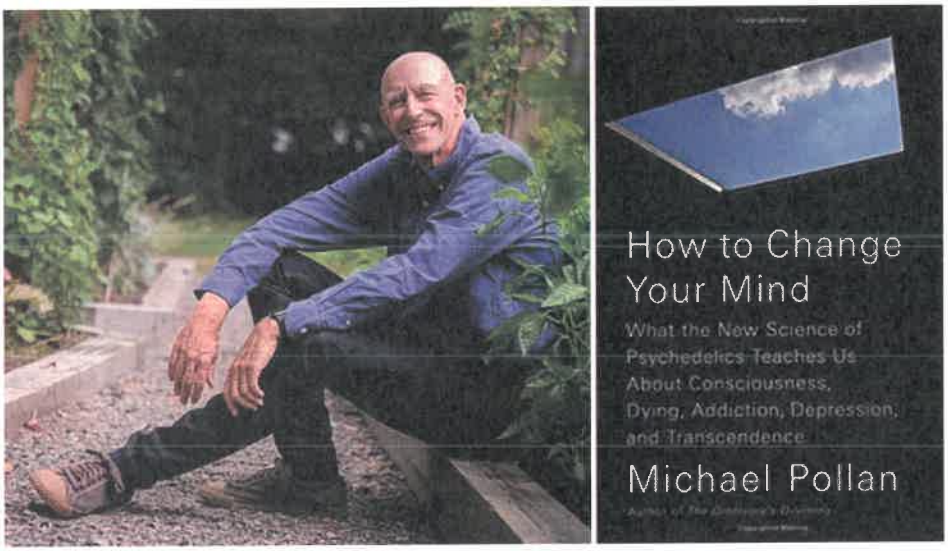
This indicates that even if the experience is tough and frightening, the effects of psilocybin are still quite powerful, and the experience can be considered worthwhile. Because of the difference in results between the laboratory studies and the survey, Griffiths adds that careful preparation of patients and a safe environment with proper support are essential for a successful psilocybin experience, which perfectly coincides with South American shaman practices, where a conversant guide aids participants through an entire psychedelic event.

The prime goal of a psilocybin trip is to reacquaint an individual with a sense of interconnectedness of all people and things, which is a feeling that gets buried inside of us because of the way modern monetary society functions, where self-interest and constant competing for riches and prestige sadly still reign supreme.

Griffiths' research shows that in an appropriate setting, psilocybin induces a sense of profound unity and alleviates issues like depression, anxiety and addiction in a sizable percentage of patients who were tested.

Michael Pollan

Michael is a professor of journalism at Berkeley, but also a famed author whose work mostly focused on healthy diet systems. Once he heard about the work of Roland Griffiths, he decided to go down that path, and a couple of his experiences resulted in a book called *How to Change Your Mind: What the New Science of*


How to Change Your Mind
What the New Science of Psychedelics Teaches Us About Consciousness, Dying, Addiction, Depression, and Transcendence
Michael Pollan

Michael Pollan and his book

Psychedelics Teaches Us About Consciousness, Dying, Addiction, Depression, and Transcendence.

Pollan was fascinated with the discoveries of Griffiths, and as he illegally tried several psychedelic substances (including psilocybin), he was absolutely captivated with his findings as he told *Time* Magazine: "The biggest misconception people have about psychedelics is that these are drugs that make you crazy. We now have evidence that that does happen sometimes—but in many more cases, these are drugs that can make you sane."[7]

In his book he talks about how the exact mechanisms of psilocybin are still not understood, which we already touched upon, but I found an interesting thread in his *Time* Magazine interview, where he describes how psilocybin (and other psychedelics) lessen the activity of a brain network which is called the default mode network.

He adds that this particular network is in charge of our perception of self, and how we react to everything at any time in relation to who we are.

Psilocybin temporarily halts the functioning of the default mode network, which results in a sense of ego disintegration, which I also experienced on my third trip, described in detail at the end of the article.

This ceasing is responsible for new neural connections being made, as the other centres of the brain can uninterruptedly communicate with each other.

This leads to the creation of new perspectives, ultimately leading to a new way of perceiving reality, long after the psilocybin experience is finished.

Most mental disorders such as depression and anxiety are neurologically represented by our thoughts constantly following the same pattern, which creates grooves in which they travel. The same pattern goes for fears, obsessions or lies we tell ourselves to make it through the day. Psilocybin temporarily disables this way of thought movement, and once new neural connections are "forcefully" established, old thought patterns continue to be dissolved for extended periods of time.

If we consider our mind as a processing unit of a computer (which it pretty much is, just an organic and highly advanced one), the psilocybin experience is a complete reboot of this processor.

The guided and guarded psychedelic trip is very different from the recreational use of mushrooms, because the trained facilitators know all the mechanisms and carefully guide you through the entire experience.

The point is to feel safe in an objectively secure environment, and slowly lower your defences, which opens you to a new way of looking at the world, offering new perspective and providing to the individual a way to re-evaluate and ultimately break free from their habitual and thought-locking patterns of thinking.

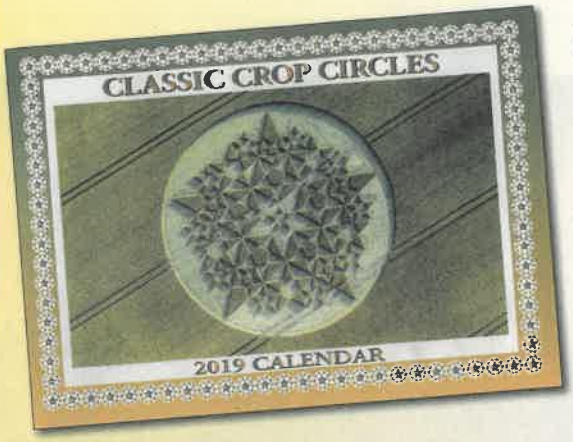
The biggest long-lasting effect of psilocybin is an increase of openness, which can be understood as an elevated level of curiosity, being more open to new ideas and the views of others...

Another important part of the process is the "integration period", where with the help of the therapist a person closely examines and interprets what they saw and felt during the psilocybin experience, and together they figure out the best ways to incorporate these findings into everyday life.

The biggest long-lasting effect of psilocybin is an increase of openness, which can be understood as an elevated level of curiosity, being more open to new ideas and the views of others, and also openness to new experiences. Any change in personality is a very rare occurrence after a person reaches a certain age (approximately 20 years), and achieving this effect with regular medications is considered impossible.

Pollan also points out that a large percentage of Dr Griffiths' patients described the same sensation, which is the abolition of the sense of self as separate from everything else, and a feeling which connects the individual with the cosmos, nature, animals and other people.

Continued on page 74



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by Lucy Pringle

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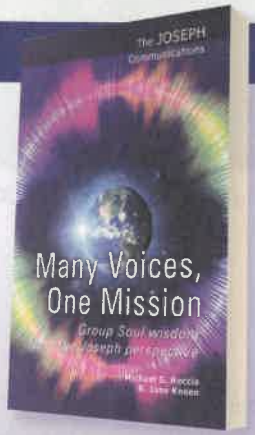

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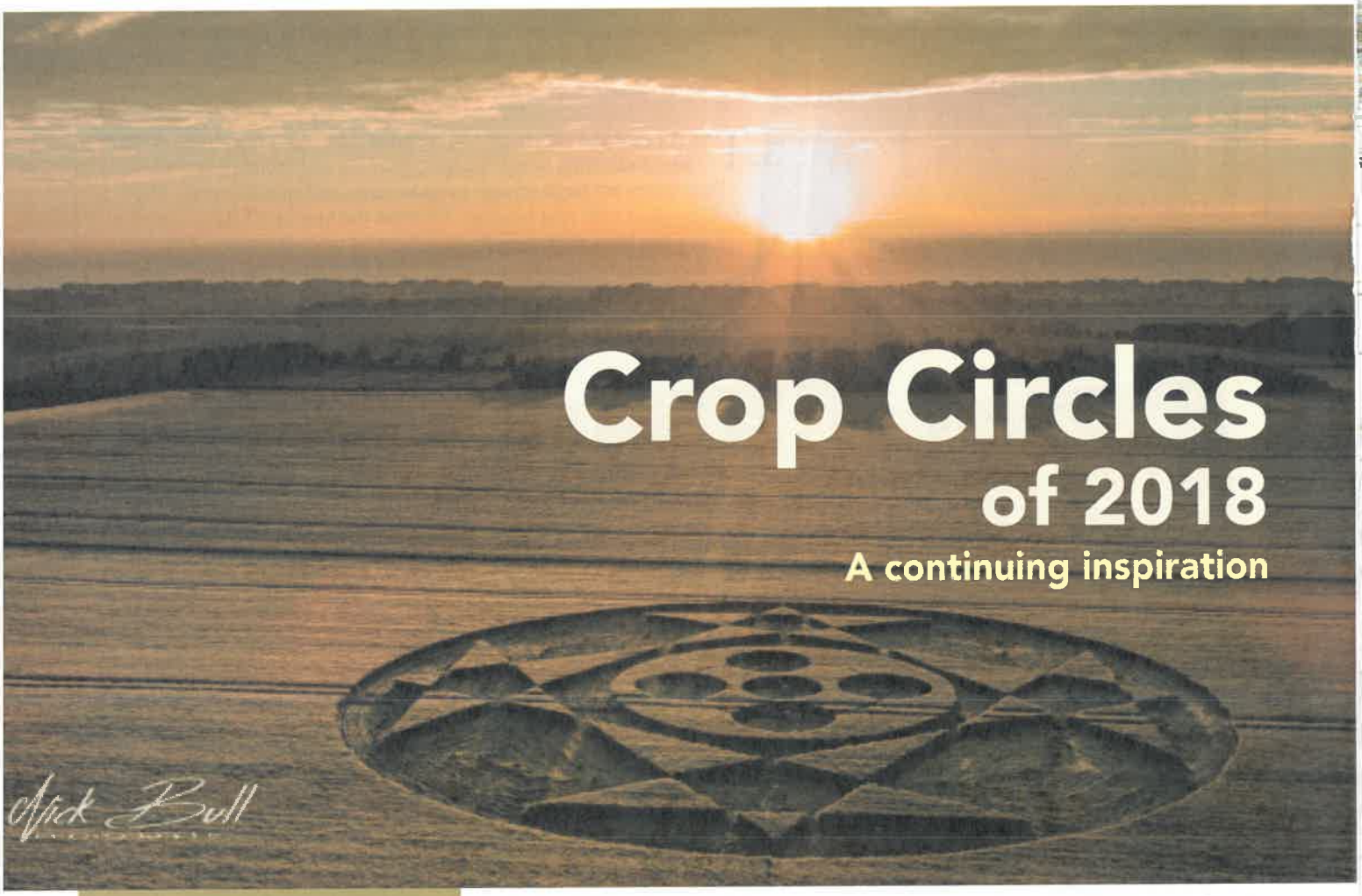

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Global crop circle activity may have diminished in recent years, but areas of mystical England continue to produce remarkable patterns in the fields, which continue to baffle and inspire in equal measure.

by Andy Thomas © 2018

Golden Ages

Crop circles are resilient and chameleon-like. Having seamlessly morphed from being seen first as occasional countryside oddities and then New Age flowerings of the post-1987 Harmonic Convergence period, pre-millennial signs of the times and eventually heralds of the "new era" prophesied to occur from 2012, the predicted demise of the circles in the wake of each chapter has steadfastly refused to occur. Now they seem simply to have become an ongoing rock-steady feature in the landscape, mainly in England but with a few highlights elsewhere, seemingly untethered to any particular zeitgeist. Whatever their origin and purpose, they march on in the face of media indifference and scepticism, continuing to attract new seekers and raising questions about the very nature of reality. For if even a handful of crop formations can be shown to lie beyond the boundaries of human-made art, as many observers believe has already been demonstrated, then the world is clearly not as it has been sold to us by narrow scientism.

Strange, then, in the face of such a persistent wonder, that an oft-heard view

is that the phenomenon has passed its artistic peak and that the "golden age" of crop circles is over. This opinion is deeply subjective; when a fresh wave of researchers arrived following the advent of the large pictogram formations of 1990, the same cry was heard even at that early stage, usually from enthusiasts who had until then literally had the field to themselves. "Halcyon days" are generally illusion; a simple glance at the crop patterns of the early 1990s—the traditionally held golden age—demonstrates that what we are receiving today, in terms of quality and artistic impact, is plainly superior. Numbers may have gone down in recent years (although not as much as some imply), but the honest truth is that the crop formations of 2018 have shown once again that what we are dealing with today remains as extraordinary, and as controversial, as ever. Thus it could be argued that the golden age of circles is still with us today.

Early Season

England is the traditional hub of the mystery for reasons much-discussed and never satisfactorily settled, so we will deal with this first and discuss global events later. April is often the first month to see activity here, but this year, perhaps because of a notably late spring where crops were slow to mature, it took until 8 May for the first arrival, at Mere in Wiltshire. At first sight a six-armed flower within a ring, closer inspection revealed a striking resemblance to a "pond skater" insect (common in the UK), complete with insectoid body and head. This was perhaps an apt metaphor for a circular season that would effortlessly skim across the next few months. Unusually, this was the only design of the year to appear in the yellow rapeseed (canola), the remainder being in grain crops.

May gave just one more crop formation on the 26th, this time a crisp eightfold motif comprising thin arms culminating in either small circles or crescents and larger circles. It lay not far from the famous Cerne Abbas giant hill carving in Dorset, and, as with many crop formations over the years by chance or otherwise, it was very close to a tall transmission tower, this one belonging to the BBC.

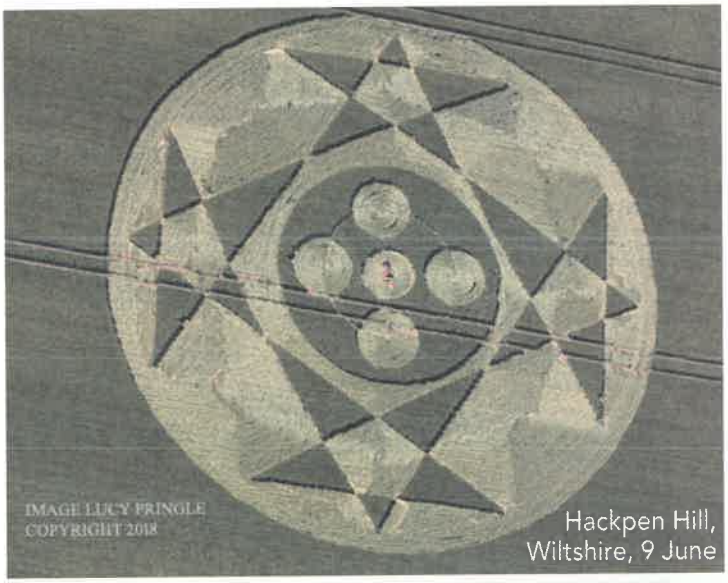
After the quiet start, the season picked up substantially in June. A triple-ringed circle not unlike a car wheel appeared at Baunton in Gloucestershire on 2 June, made more intriguing by the use of the criss-crossing "basket weave" effect in the lay of the central circle; textures have been used to fascinating effect in recent years. A curiously slender crescent-like ridge of crop had been left in one part of the thicker outer ring, not quite a definite feature yet seemingly more than just a "missed" area. A more straightforward triple-ringed circle of the classic variety, notably wide and thin in its construction yet somehow elegant in its simplicity, arrived the next day at Beckhampton, Wiltshire.

The formation which appeared on 4 June at Sixpenny

Handley in Dorset was a step towards deeper complexity. A seven-pointed star embedded in a ring of Mayan-like rectangular curlicues, orbited by seven small outer circles, the design was enhanced further by the ring of radially laid crop around its otherwise swirled centre, a flourish now becoming common. Very striking, this was the first design of the year to really draw the breath at first sight.

Ancient Connections

A busy circle hotspot reactivated on 9 June at Hackpen Hill, Wiltshire, below one of the white horse carvings that populate the area. The new pattern revisited two recurring features of previous years; a small central Celtic cross design, it was surrounded by four standing pentagrams within a flattened circle, visually stretched as



Hackpen Hill, Wiltshire, 9 June

Chicklade, Wiltshire, 10 June

if seen in perspective around a sphere. The following day, 10 June, a beautifully textured motif was found at Chicklade, Wiltshire, of three blades superimposed over three thin spokes ending in circles. The formation was aligned perfectly next to two ancient round barrows in the same field, perfectly echoing the threefold nature of the overall design.

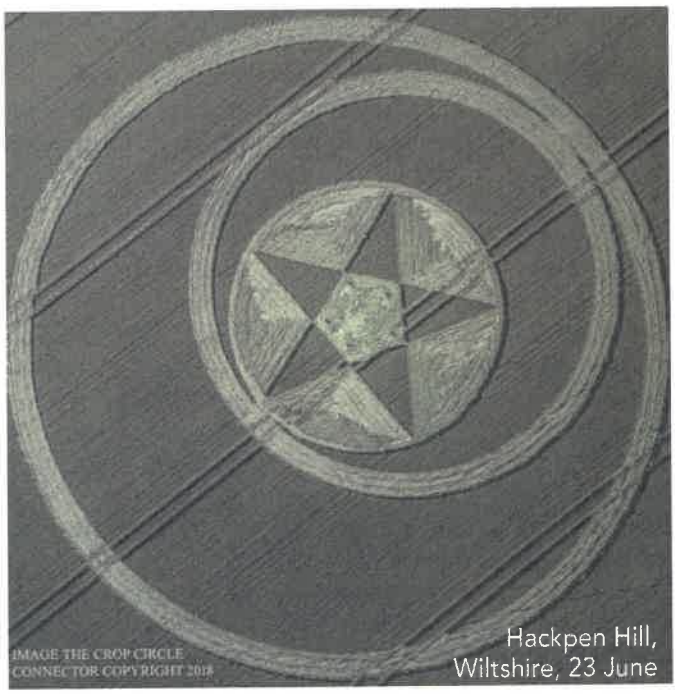
Stonehenge, Wiltshire, 17 June

Having played with threes, fours, sevens and eights in the circular themes of the year so far, the phenomenon finally offered fivefold geometry at Winterbourne Stoke near Stonehenge on 17 June. An attractive five-petalled flower or windmill design with standing notched wedge shapes between the petals, five circles on long arms extended around the outside, making for a pleasing effect. As with the previous formation, an ancient barrow lay just metres away. Yet another archaeological site found itself accompanied by a mandala on 20 June, close to the famous stone quoit of Devil's Den at Clatford, Wiltshire. A sevenfold star within a ring, with thin paths around a small central circle, the lays of its triangular points exhibited multiple textured swirls and centres almost at random.

As an archaeological footnote, England's extended heatwave this summer saw the landscape revealing many ancient features long hidden, as the sites of stone circles, structures and paths unexpectedly made themselves known as highlighted shapes in the very bleached-out grass and fields. Some observers drew comparisons with the crop circles, but fascinating though these phantoms from the past were, their essential nature was very different, being a discolouration occurring due to unequal moisture content in the ground and not involving any laid plants.

Unusual Layouts

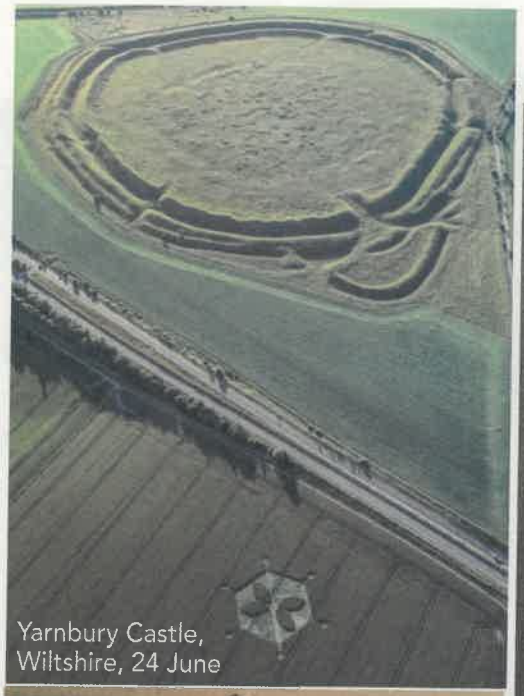
One of the season's most striking designs arrived at Hackpen Hill, Wiltshire, on 23 June. Although essentially a five-pointed star within two wide outer rings, both the rings and the positioning of the central star in a circle were offset from one another, each feature touching at the edges, creating a disorientating but very pleasing effect. Five standing tufts of crop punctuated the central area of the star. The farmer at Hackpen Hill, with this and the earlier June formation, was one of the few who opened his fields to visitors this year, working with local circle researchers to raise money



Hackpen Hill, Wiltshire, 23 June

for charity, a welcome development for those who wish to see the shapes at close quarters.

Ancient sites returned to the equation on 24 June, when one of the more unusual patterns of the year was found opposite the remains of the old hillfort Yarnbury Castle, near Steeple Langford in Wiltshire. A hexagon with six small circles extending from each corner, a peculiarity lay in the large petals at its centre; plainly there had been six petals left standing during the process of its creation, but seemingly at the last stage two of them had been swept down (symmetrically) so that these petals were merely implied in the lay. A second oddball formation was found much further east, near Rochford in Essex (an area which has seen intense activity in the last few years) on 30 June; in essence a ringed circle, the standing area in the middle was divided into unequal and seemingly random blocks, like a child's play shapes. Although, like a number of recent Essex formations, it was eccentric rather than beautiful, its construction was nonetheless neat and interesting. A tail of small circles and other shapes trailed nearby across the field.



Yarnbury Castle, Wiltshire, 24 June

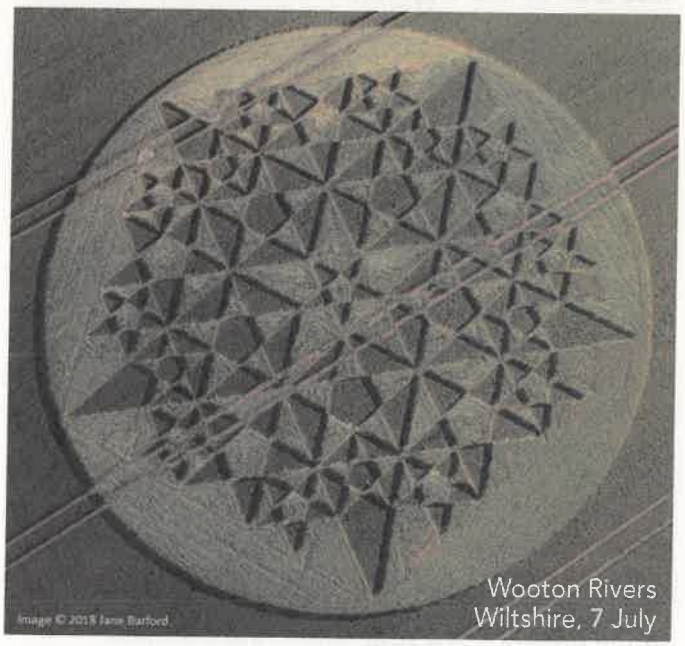
Rochford, Essex, 30 June

July Highlights

Among two more double-ringed circles (near Alton in Hampshire on 1 July, and then at East Worldham, Hampshire on 27 July), and a few small and sometimes rather scrappy minor entries in Wiltshire, the most generally active circular month of the year produced some remarkable highlights.

An astonishingly complex mandala at Wooton Rivers, Wiltshire, on 7 July impressed many with its sheer detail. The pentagon-based mosaic of multiple smaller pentagons and five-pointed stars created by the standing elements in its central area played tricks with the eyes. Although perhaps too busy to be as immediate as some patterns, it was certainly one of the most ambitious layouts of the year. As a design that wouldn't look out of place in the oft-praised late 1990s, it served as a reminder that this phenomenon has lost none of its power to impress.

A dark but very topical note was sounded in the next formation, near Stonehenge, Wiltshire on 8 July—the threefold design within a ring was clearly the international symbol for chemical weapons. This year saw a huge scandal erupt in Britain, with Russia accused of sponsoring a nerve gas attack in the Wiltshire city of Salisbury, poisoning the Russian double agent Sergei Skripal and his daughter, and later resulting in the death of a local woman in Amesbury (very close to Stonehenge). Arguments as to who was really behind this lie beyond this article's remit, although many truthseekers suspect a false flag event designed to accelerate a new Cold War, especially given the close proximity of the



Wooton Rivers Wiltshire, 7 July

Stonehenge, Wiltshire, 8 July

British defence establishment Porton Down—which deals with these very kinds of substances. The formation itself was crisp and well-laid, but let down by some uneven central pathways, leading some to treat it as a wry human comment on the whole unfortunate business.

Nine was the next geometrical number to be played with, in the form of a ninefold wheel at the enduring circle site of Longwood Warren in Hampshire on 10 July. Clear-cut and well-made, narrow outer petals surrounded a wide area of laid crop with a central saw-blade motif, throwing out curious narrow paths within the lay itself, radiating to the outer edges. Although different in design, the pattern at Winterbourne Bassett, Wiltshire, on 14 July, seemed to have something in common in terms of its striking visual effect, this time with a threefold central element radiating thin standing crescents, like ripples in a pond. A rare Welsh formation, which appeared the same day near Cardiff, incorporated a nested circle, triangle, square and smaller circle constructed with thin paths, but its resemblance to the logo of a new local restaurant which was opening the next week cast understandable doubt on its provenance.

Another very "busy" formation appeared at Kingweston in Somerset the same day, a riot of 24 circles and thin paths radiating from a complex twelvefold flower of petals and diamonds. What it sometimes lacked in accuracy it made up for with its general stunning effect, but the lay was neat and tidy. Those who thought it resembled a stylised sun motif had their view bolstered by the presence of a solar farm in the next field.

Kingweston, Somerset, 14 July

Twelvefold elements returned in the next formation, at Allington, Wiltshire on 21 July. A wheel of twelve standing scimitar-like spokes within a large ringed circle, its precision and presence in the landscape was stark and beautiful, its relative austerity almost a relief after the overwhelming intricacies of the previous design. Essex then produced another oddity next day back at Rochford; the sixfold flower of thin petals within a circle was conventional enough, but the long tail of haphazard circles, rings, arcs and paths trailing from it stamped on it the now recurring chaotic Essex theme. One more day on, and yet another strange formation arrived at Fovant in Wiltshire on 23 July, but strange for different reasons. Rather than odd complexity, it displayed odd simplicity; superimposed onto a large circle with a small central ring was a parallelogram, or a large standing rectangle seen as if in perspective, giving the impactful impression of

Allington, Wiltshire, 21 July

some kind of opening doorway. But opening to what..? Even now, the phenomenon continues to produce surprises.

An elaborate sixfold snowflake design at Harbury, Warwickshire on 26 July, was more traditional in its approach, if somewhat naive in places, but was made more interesting by varied textures in each of its circular components. Basket weave "notches" were very apparent back at Hackpen Hill on 29 July. This new eightfold flower of standing petals very strikingly incorporated three bands of "cogwheels" in the lay of its central area, making for an impressive close to the month.

August Endings

The last of the truly stunning English formations of the year manifested at Etchilhampton, Wiltshire, on 10 August in the form of a unique and almost indescribably complex motif of rings, circles and semicircles, resembling perhaps a cartoon of a cratered planet. Huge, impeccably laid and very accurately devised, this was a favourite of the season for many observers. After this, anything less than amazing would be seen as an also-ran, and sure enough the final entries in the English summer canon struggled to match it, although they were not without interest.

Etchilhampton, Wiltshire, 10 August

An odd complex of uneven standing blocks around an uneven cluster of four circles and paths at Fonthill Bishop, Wiltshire, on 13 August was largely remarkable for having appeared very close to a farmer's spray test grid in the same field. A curio of two linked ringed circles and paths either side of a circle at Warminster, Wiltshire, on 14 August was notable for having been lightly brushed into a low-standing crop, with a thin standing ring at its centre and a radial band in its lay. The last English arrival at the time of writing (late August), at Alton, Hampshire on 19

Forvant, Wiltshire, 23 July

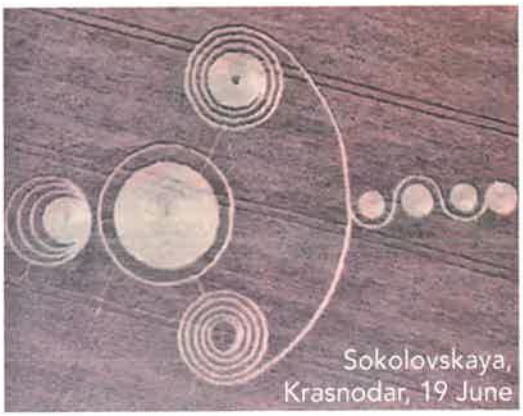
August, was more intricate, comprising a ringed pentacle around a ringed circle. Aerial shots displayed a novel effect where a small central circle was implied by what looked like slightly blacker crop in that area (whether by design or an accident of someone having damaged the lay while visiting). Counter-rotating bands of laid crop in the circle and outer ring produced other textures. Not quite a grand finale, then, but no one could really complain after such a succession of fascinating developments across the summer.

Global Events

While UK activity holds out with aplomb, the past few years have seen an unexplained decline in global crop circle numbers—and yet not a cessation. The first recorded event of the year was a single grass circle at Bosschenhoofd, Noord Brabant, in The Netherlands on 29 April, followed by the now annual succession of modest and slightly rough clusters of circles or old-style pictograms in the months after, generally around the same area, which many researchers these days regard with suspicion, fairly or not. Definite human-made designs were a feature in The Netherlands in the Oudebildtdijk area in Friesland, which saw a series of geometric patterns created in the fields there as an art project. Another such project in Italy, at Cascina Geronimo, Piemonte, saw the latest annual design by land artist Francesco Grassi (all that would appear in Italy this year, once such a busy place for formations), while, less successfully, a Belgium venture attempted a flower of life mandala which was wobbly in the extreme.

Of the unexplained designs to appear, Switzerland produced an atypical pictogram at Uster, near Zurich on 4 June, comprising a thin arc attached to a crisp, if odd, circular design. That country then excelled itself with a truly beautiful twelvefold wheel of very precise arcs at Frienisberg, Bern, on 17 June. On a par with its English cousins, it was one of the highlights of the entire season. Other countries to host two formations apiece were Brazil, which saw a double-ringed circle, superimposed with a cross of thin paths and small circles, at

Prudentópolis, Paraná, on 3 August, and what appeared to be a Wi-Fi symbol of three arcs radiating from a circle at the same location on 14 August. Russia, meanwhile, saw a thin and sprawling but clear pictogram of paths, rings and circles at Tolyatti, Samara Oblast, on 13 June followed by a more ambitious if less precise emblem of curves, circles and spirals at Sokolovskaya, Krasnodar, on 19 June. North America, by contrast, for all its vastness, failed to produce a single formation in 2018, but it was referenced at least, if cheekily, in a human-made English design at Aylesbury, Buckinghamshire, on 6 July. Commissioned by protestors in the week of President Trump's visit to Britain, it starkly read "TRUMP", but with an obscenity written in Russian above it, making a crass but topical statement, depending on one's view of recent accusations.


Sokolovskaya, Krasnodar, 19 June

Other countries to receive less insulting crop glyphs this season included the Czech Republic, which saw the appearance of an extraordinarily complex and quite stunning mass of superimposed ringed circles and arcs at Bohdánkov, Liberec, on 7 July. Precise and visually striking, it was probably the most original formation of the season. France came up with its own unusual entry at Sarraltroff, Moselle, on 11 June, seemingly a play on an elaborate and extended yin-yang symbol, while Quebec in Canada had a single event at an unrevealed location on 31 July. A single circle with four small attached circles, the lay was neat and nicely swirled; aerial lights were reported over the field on the night of its appearance.

A Continuing Mystery

The final tally for crop formations in 2018 (not including art projects) was, at the time of writing, 49, of which the majority were in England. Thus, while the geographical spread has notably thinned, numbers-wise it was on a par with recent years and it is clear that the phenomenon continues to stir hearts and minds with its best entries, which remain stunning to see.

Bohdánkov, Liberec, 7 July

Media coverage was muted this year, with the current marvels in the fields largely ignored with the exception of, inevitably, the anti-Trump formation and the chemical weapons symbol near Stonehenge. Curiously, a story missed by the mainstream was the passing of an era with the death of Doug Bower in July, aged an impressive 94. Together with his compatriot Dave Chorley (who died in 1997), in the "golden age" of 1991 Doug and Dave gained huge media attention by claiming to have invented the entire circle phenomenon in the late 1970s, with nothing but planks of wood and pieces of wire on hats. But their productions were unimpressive. It is astounding how many sceptics, who did report Bower's death with glowing tributes, still insist that this was the sole origin of it all, when there is widespread and substantial evidence of many crop circles going back decades, and indeed centuries, before that. That the formations failed to go away, and indeed flourished, after Doug and Dave retired from circlemaking in 1991 says much.

However many crop circles the two pranksters and those they might have influenced in the years after may have created, the fact is that the extraordinary patterns continue on to this day and the mystery surrounding them has never dissipated, for all the arguments. There are too many anomalies, unique qualities, sightings and peculiar circumstances for this to be the whole answer. This leaves us with something which remains very special and will doubtless continue to inspire and perplex people, rather wonderfully, for a long while to come.

About the Author

Andy Thomas is one of the world's leading mysteries researchers and is the author of the acclaimed *The Truth Agenda* (Vital Signs Publishing 2009–2013/ Adventures Unlimited 2015), and also *Conspiracies: The Facts—The Theories—The Evidence* (Watkins Publishing 2013). Andy is also author of five books on the crop circle phenomenon, including *Vital Signs* and *An Introduction to Crop Circles*, considered by many to be definitive guides. Andy widely lectures around Britain and the world and has made numerous TV and radio appearances.

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Science News

THE GREAT RISKS OF 5G: WHAT WE KNOW—AND DON'T KNOW

by Martin L. Pall, PhD

There are two issues that are essential to understanding 5G.

One is that pulsed electromagnetic fields (EMFs) are, in most cases, much more biologically active than are non-pulsed (often called continuous wave) EMFs.

A second is that the EMFs act by putting forces on the voltage sensor of the VGCCs (voltage-gated calcium channels) found in cell membranes, opening these calcium channels and allowing excessive calcium ions to flow into the cell. The voltage sensor is extraordinarily sensitive to those electrical forces, such that the safety guidelines are allowing us to be exposed to EMFs that are something like 7.2 million times too high.

The reason that the industry has decided to go to the extremely high frequencies of 5G is that with such extremely high frequencies it is possible to carry much more information via much more pulsation than it is possible to carry with lower frequencies, even in the microwave range.

We can be assured, therefore, that 5G will involve vastly more pulsation than do EMFs to which we are currently exposed. It follows from that, that any biological safety test of 5G must use the very rapid pulsations including whatever very short-term spikes may be present, that are to be present in genuine 5G.

Phased Arrays

There is an additional process that is planned to be used in 5G: phased arrays (http://tinyurl.com/m2vcoyu). Here multiple antenna elements act together to produce highly pulsed fields which are designed for 5G, to produce increased penetration.

5G will entail particularly powerful pulsations to be used, which may, therefore, be particularly hazardous. The only data we have, to my knowledge, on millimetre wave frequencies of 5G, used non-pulsed EMFs in the millimetre frequency range of 5G, not genuine 5G.

Such millimetre waves have been shown to produce a number of downstream effects of voltage-gated calcium channel activation. One millimetre wave study showed that it activated both the VGCCs and also the voltage-gated potassium channels, suggesting that it worked via the voltage sensor, as do other EMFs.[136] Any such data tells us almost nothing about how biologically active the genuine, very highly pulsed 5G will be.

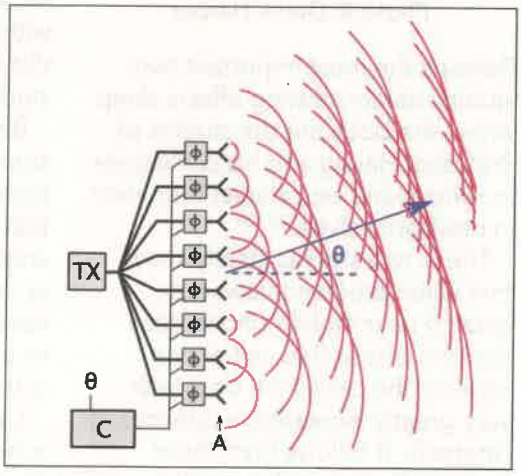

Illustration of how a phased array works. It consists of an array of antenna elements (A) powered by a transmitter (TX). The feed current for each antenna passes through a phase shifter (φ) controlled by a computer (C). (Image: Chetvorno)

Tens of Millions of Antennae

I take it that from their statements, both John Ryan [Director of Public Health, European Commission Public Health Directorate] and Arūnas Vinčiūnas [Head of Cabinet for Health and Food Safety Commissioner, European Commission] are ready to put out 10s of millions of 5G antennae to afflict every single person in the EU with 5G radiation without even a single biological test of safety of genuine 5G.

In the US, the FCC (Federal Communications Commission) has taken a much worse position. The FCC is not only willing to allow such completely untested exposures but has also been aggressively pushing to promote installation of 5G antennae, such that antennae are already being installed in parts of the US. In a world where shocking behaviour has become less and less shocking, I consider EU and US views and actions to be shocking. The US situation is mass insanity. I would have hoped that the Europeans, who think of themselves as being much more thoughtful than Americans, would have been genuinely more thoughtful.

Why does 5G need such high numbers of antennae? It is because the 5G radiation is much more absorbed as it enters various materials. The approach is to use many more antennae with one

found every few houses, so 5G can sufficiently penetrate local walls. Such absorption usually involves the interaction with electrically charged groups, such that this very high absorption is likely to involve placing forces on electrically charged groups.

Cascading Health Effects

Because such forces are the way in which EMFs activate the VGCCs, it seems highly likely, therefore, that 5G radiation will be particularly active in VGCC activation.

In summary, then, 5G is predicted to be particularly dangerous for each of four different reasons:

1. The extraordinarily high numbers of antennae that are planned.
2. The very high energy outputs which will be used to ensure penetration.
3. The extraordinarily high pulsation levels.
4. The apparent high-level interactions of the 5G frequency on charged groups, presumably including the voltage sensor charged groups.

Now what the telecommunications industry argues is that 5G radiation will be mostly absorbed in the outer 1–2 mm of the body, therefore claiming that we don't have to worry about the effects. There is some truth to that, but there are also some caveats that make any conclusions made from that information much more suspect. In any case, these surface effects of 5G will have especially strong impact on organisms with much higher surface-area-to-volume ratios.

Consequently, I predict that many organisms will be much more impacted than we will. This includes insects and other arthropods, birds and small mammals and amphibia. It includes plants; even large trees, because trees have leaves and reproductive organs that are highly exposed. I predict there will be major ecological disasters as a consequence of 5G.

This will include vast conflagrations because EMF exposures make plants much more flammable.

Consequences Deep in the Body

But let's get back to humans. The industry has also made claims that more conventional microwave frequency EMFs are limited in effect to the outer one centimetre of the body. We know that is not true, however because of the effects deep in the human brain, on the heart and on hormone systems.

Cell phone tower above farmland
Photo © Derek Harper

Perhaps the most important two studies demonstrating effects deep within the body are the studies of Professor Hässig and his colleagues in Switzerland on cataract formation in newborn calves.[137,138]

These two studies clearly show that when pregnant cows are grazing near mobile phone base stations (also called cell phone towers), the calves are born with very greatly increased incidences of cataracts. It follows from these findings that even though the developing foetuses are very deep in the body of the mother and should be highly protected from the EMF exposures, they are not so protected. And because the EMF safety guidelines in Switzerland are 100 times more stringent than are the safety guidelines in most of the rest of Europe, in the US, Canada and most of the rest of the world, the more general safety guidelines allow greatly excessive exposures and penetration of effects.

The claims of industry that microwave frequency EMFs only act in the outer centimetre of the body are clearly false.

How then can both conventional microwave frequency EMFs and 5G radiation act deeply within the body? You may correctly observe that the electrical effects of the EMFs activate the voltage sensor and that the direct electrical forces are rapidly attenuated in the body. So how can we get deep effects? I think the answer is that the magnetic parts of the EMFs have been known for decades to penetrate much more deeply than do the electrical parts. The magnetic fields put forces on mobile electrically charged groups dissolved in the aqueous phases of the body and small individual movements of the charged groups can regenerate electric fields that are essentially identical to the electric fields of the original EMFs, carrying the same frequency and same pulsation pattern, although with lower intensity. An example of this is given in the Lu and Ueno study.[139]

Because the voltage sensor is so stunningly sensitive to electrical forces and part of the reason for that is the very high level of amplification of the electrical field across the plasma membrane, we have an almost perfect way in which to produce EMF effects deeply within our bodies.

I am very concerned that 5G may produce effects like those we already see produced from lower frequency EMFs but are much more severe. I am also concerned that we will also see responses that are qualitatively different. Let me give you three possible examples of the

latter type and one quantitative example. Each of the four types of blindness have downstream effects of VGCC activation as causal factors: cataracts, detached retinas, glaucoma and macular degeneration. The aqueous and vitreous humours in the eye may be an ideal environment for the regeneration of the electrical fields. We may, therefore have a gigantic epidemic of each of the four types of blindness. Another concern focuses on kidney dysfunction, which was shown in Chapter 5 to be impacted by EMFs. The kidneys have much fluid, both blood and also what will become urine, which may allow efficient the regeneration of electrical fields. Such regeneration may be expected to impact both the glomerular filtration and also the reabsorption, both essential to kidney function.

Human Chain Protests Against 5G Continues in August 2018
Research Stop5G.net
5G
Protest March 16 June 2018
Human Chain to Stop 5G in Spain
Research Stop5G.net
5G
Danger!
Citizens worried about the 5G pilot tests carried out in Segovia Spain!

A human chain protest by citizens against 5G was organised across Segovia, Spain in August 2018. (Image: http://stop5g.whynotnews.eu)

Genuine 5G Testing Crucial

Does this mean that 5G will produce very large increases in kidney failure? The only way to find out is to do biological safety testing of genuine 5G radiation. Let me give you a third example. Foetuses and very young babies have much more water in their bodies than do adults. Therefore, they may be a special risk for impacts of 5G, because of great increases in the regeneration of the electrical fields. Here one can think of all kinds of possibilities. Let me suggest two. We may have a gigantic (sorry about using that word again) epidemic of spontaneous abortion due the teratogenic effects. Another possibility is that instead of autism being one birth in 38, however horrendous that is, it could be one out of two, or even a majority of births. I don't know that these will happen, but these are the kinds of risks we are taking and there are many others one can contemplate. Putting in tens of millions of 5G antennae without a single biological test of safety has got to be about the stupidest idea anyone has had in the history of the world.

This brings us back to the earlier point. The only way to do 5G safety testing is to do genuine 5G biological safety testing. I have published on how this can be done relatively easily at relatively low cost and have told the FCC how this can be done. Those tests must be done by organisations completely independent of industry and that leaves out both ICNIRP and SCENIHR and a lot of other organisations.

Now we will get into the precautionary principle which is especially relevant to the EU but may have lessons for all of us.

Arūnas Vinčiūnas' last full paragraph reads as follows:

"The recourse to the EU's precautionary principle to stop distribution of 5G products appears too drastic a measure. We need first to see how this technology will be applied and how the scientific evidence will evolve. Please be assured that the Commission will keep abreast of the scientific evidence in view of safeguarding the health of European citizens at the highest level possible and in line with its mandate."

Article 191 defines the Precautionary Principle as follows:

"According to the European Commission the precautionary principle may be invoked when a phenomenon, product or process may have a dangerous effect, identified by a scientific and objective evaluation, if this evaluation does not allow the risk to be determined with sufficient certainty."

"The Commission stresses that the precautionary principle may only be invoked in the event of a potential risk and that it can never

justify arbitrary decisions. The precautionary principle may only be invoked when the three preliminary conditions are met:

- identification of potentially adverse effects;
- evaluation of the scientific data available;
- the extent of scientific uncertainty."

The question now is what about 5G? We have with 5G strong suspicions of similar or much more severe risk of effects documented elsewhere in this paper. We have no biological safety testing of genuine 5G radiation. Therefore, we have no risk analysis or risk management because we have no risk assessment whatsoever on 5G.

So here we have the EU's Arūnas Vinčiūnas arguing that the request for precautionary principle application is premature. But it is not the request for the use of the precautionary principle that is premature, it is the Commission's claim that it has done the required risk analysis and risk assessment. This is the bizarre world we live in.

The European Commission has done nothing to protect EU citizens from the very serious health hazards and the US FDA, EPA and National Cancer Institute have done nothing to protect US citizens. The US FCC has been worse than that, acting in wanton disregard for our health.

From Chapter 7 of the paper: "5G: Great risk for EU, US and International Health! Compelling Evidence for Eight Distinct Types of Great Harm Caused by Electromagnetic Field (EMF) Exposures and the Mechanism that Causes Them" written and compiled by Martin L. Pall, PhD, Professor Emeritus of Biochemistry and Basic Medical Sciences, Washington State University, USA. The 90-page document can be accessed free at the following link: http://tinyurl.com/ycmeeekb

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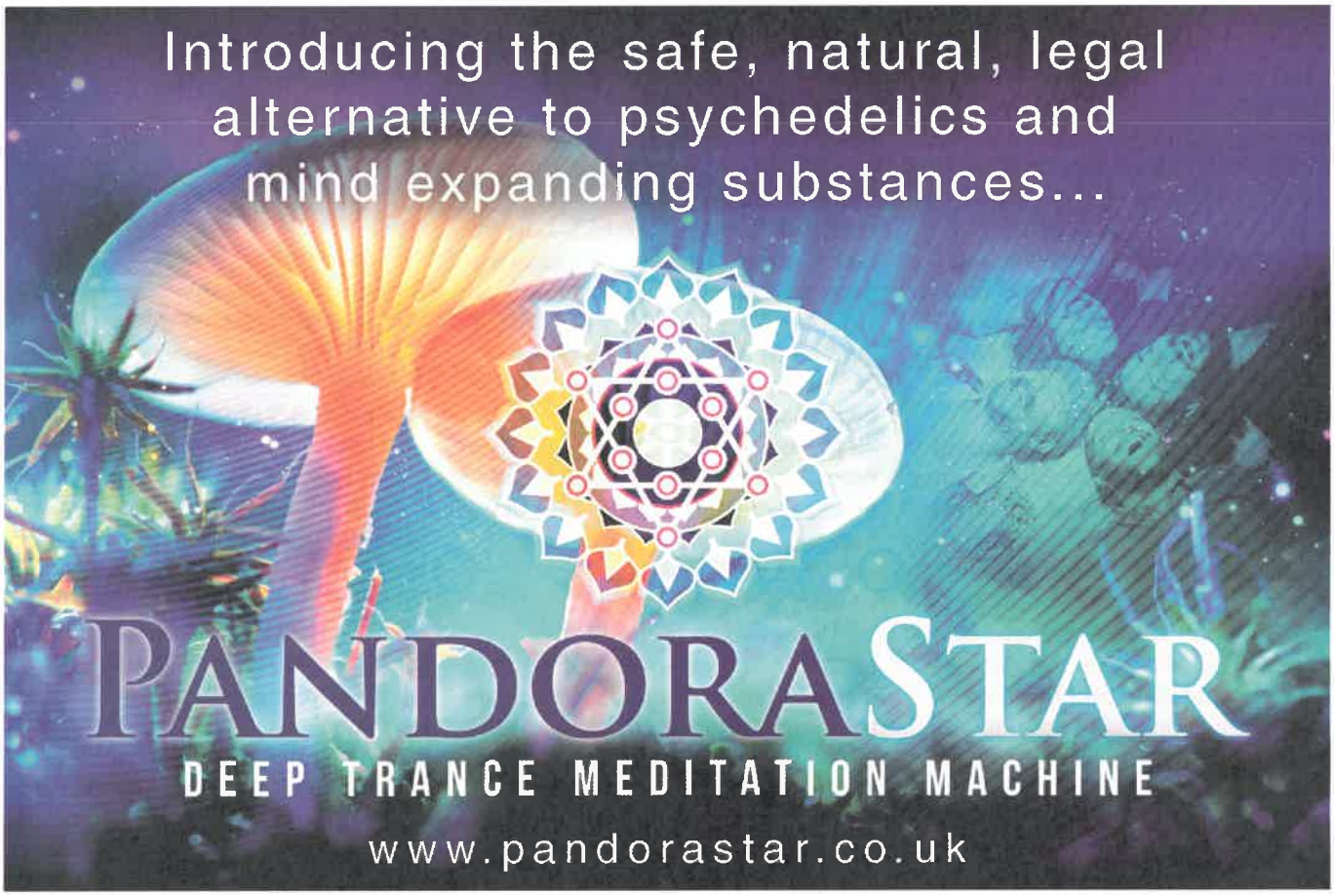
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A Big Bang never happened

Based on an initial faulty assumption, the Big Bang model has survived with its foundations unquestioned—until now.

by David Rowland © 2018

The universe is much simpler than we have been led to believe. There never was a "big bang", galaxies are not receding from each other, and we are not on a collision course with Andromeda. Mainstream astrophysics has been totally wrong in these speculations for almost a century. Every generation of scientists accepts on blind faith the false assumptions and mathematical errors of its predecessors. It is a house of cards that is about to come tumbling down.

There are several variations of the Big Bang theory, and all of them suggest that somehow the Universe spontaneously created itself from nothing. This notion defies both physics and logic, the science of thinking and reasoning. Nothing cannot be the cause of something.

The Big Bang theory states that the Universe is finite, having been created by an explosion or other singular event that happened at a specific point in time. If Big Bang theory is wrong, then the Universe must be infinite. There is no third possibility.

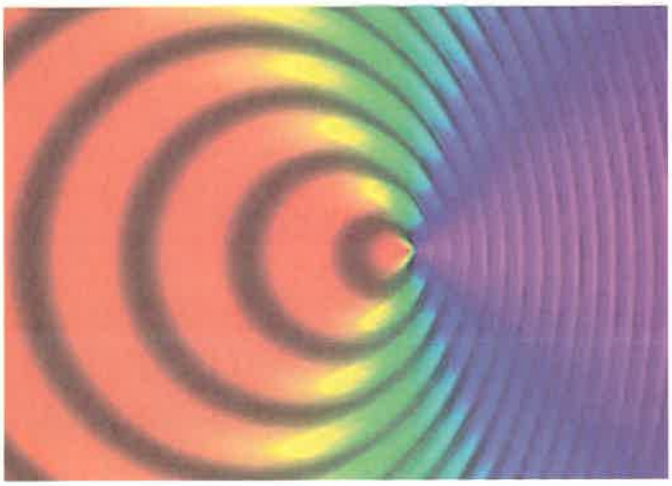
Scientists do not like to abandon a theory unless it can be replaced by a better theory, supported by observational evidence and mathematics. With respect to the Big Bang theory, however, this is a nonsensical request. The burden of proof is always on the positive—meaning that it is up to Big Bang theorists to prove that such an event took place. Non-events cannot be proven—just as it is impossible to prove that you are not beating your wife. If a "big bang" could not possibly have

happened, then the Universe must be presumed to be infinite. (This is the logical equivalent of a QED in mathematics, or a "not guilty" verdict in a court of law.)

The reason science has been so wrong for so long is because of false assumptions and flawed mathematics. See for yourself.

The Redshift Misconception

All the supposed evidence supporting the impossible Big Bang theory has been based on a faulty assumption that until now no one has questioned. Mainstream scientists mistakenly believe that a redshift and the Doppler effect are one and the same thing. They even refer to what they presuppose is the same phenomenon as Doppler redshift. This is completely wrong—and may be science's most colossal blunder of all time.



A visual representation of Doppler effect: a source of light waves moving to the right, relative to observers, with velocity 0.7c. The frequency is higher for observers on the right, and lower for observers on the left. (Image: TxAlien)

In 1925, astronomer Vesto Slipher observed that light from spiral nebulae is "redshifted", meaning that its frequency drops toward the red end of the spectrum and its wavelength simultaneously increases by a corresponding amount. Slipher speculated that this is consistent with a light source moving away from the observer and somehow "stretching" the wavelength of the light it emits—and jumped to the conclusion that most observed clusters of stars are moving away from us. The misconception that an increase in the wavelength can happen only if the light source is moving away comes from confusion with the Doppler effect.

A redshift is the phenomenon by which transverse visible light waves travelling through space from a stationary source lose photon energy over extreme distances, resulting in a decrease in frequency and a corresponding increase in wavelength. This increase in wavelength is a function only of distance and nothing else.

In a Doppler effect, the frequency of longitudinal sound waves travelling through Earth's atmosphere remains at a constant frequency; but if the source is in motion towards the observer, these uniform sound waves bunch together, creating the illusion of an increase in pitch/frequency to the observer's ear. (Conversely, if the source is in motion away from the observer, the illusion of a lowering in pitch/frequency is created.)

The classic example of the Doppler effect is the approach and recession of an emergency vehicle. As an ambulance approaches, the pitch of its siren appears to become higher—because sound waves of the same exact length hit your ear more frequently (i.e. bunch together), creating the illusion of increasing pitch/frequency. As the ambulance moves away, sound waves of the same exact length hit your ear less frequently, creating the illusion of a lowering in pitch.

Doppler radar bounces a microwave signal off a moving target and analyses how this object's motion alters the frequency of the returned signal. This works only because the frequency of the emitted signal is constant and the frequency of the returned signal is at a different constant rate. Velocity of the target is inferred as a function of the difference between the two steady frequencies.

In a redshift there is an actual increase in wavelength. In Doppler, there is only the illusion of a change in wavelength. These are two fundamentally different phenomena.

For over 90 years, theoretical physicists have been falsely assuming (a) that galaxies are in motion away from planet Earth, and falsely presuming (b) that the velocities of said galaxies is proportional to the degree to which light emitted by them is shifted towards the red end of the visible spectrum. Redshift is a reliable measure only of distance and nothing else. The farther away a galaxy is, the more its light shifts to the red end of the spectrum. This is all that a redshift can tell us. Nothing more.

In the absence of tangible or verifiable evidence to support the hypothesis that galaxies are in motion relative to each other, we must presume that they are not. The belief that galaxies are retreating from us is thus based on erroneous interpretation of the evidence.

Expansion Theory

In 1925, mathematician Alexander Friedmann proposed that the Universe could be either expanding, contracting, or remaining static. Friedmann developed equations to predict either the rate of expansion or contraction, once it was known which was the case.

In 1927, astronomer George Lemaître independently developed the same equations as Friedmann. Lemaître, however, was convinced that the Universe was expanding.

In 1927, Edwin Hubble theorised that galaxies are receding from the Milky Way and the farther they are away, the faster they are retreating. Hubble's conclusions,

however, were based (a) on the Slipher error of mistaking redshift for Doppler, plus (b) some mathematical errors of his own that appear to have been contrived to justify his foregone conclusion.

In 1929, Edwin Hubble and Milton Humason formulated Hubble's law, which states that objects in deep space have a presumed relative velocity away from Earth and the velocity of their recession is approximately proportional to their distance from Earth. Unfortunately, these conclusions are based on flawed assumptions, unreliable measurements, and faulty logic.

In 1949, astronomer Fred Hoyle, an opponent of the primeval atom theory, sarcastically called it the "Big Bang" on BBC radio. The name stuck.

In 1931, George Lemaître published the English version of his earlier paper entitled, "A homogeneous Universe of constant mass and growing radius accounting for the radial velocity of extragalactic nebulae." He initially called his theory the "hypothesis of the primeval atom" and described it as the "cosmic Egg exploding at the moment of creation." In addition to being an astronomer, Lemaître was also a Catholic priest who felt comfortable with the metaphysical notion that God had created the atom/egg that subsequently blew up to create the Universe.

In 1949, astronomer Fred Hoyle, an opponent of the primeval atom theory, sarcastically called it the "Big Bang" on BBC radio. The name stuck.

Edwin Hubble Miscalculated

Hubble's law is considered the first observational basis for the expanding universe theory and today is one of the pieces of evidence most often cited in support of the alleged Big Bang. Hubble's "law", however, is fatally flawed.

Statistical Insignificance: Edwin Hubble studied 46 galaxies and selected the results from only five of these to demonstrate a presumed straight-line relationship between distance and velocity. Five is a statistically insignificant sample size from which to project meaningful data about the entire Universe.

Selection Bias: Hubble used only the data of galaxies from which light was redshifted and ignored data of galaxies from which light was blueshifted (e.g. Andromeda, M86, M90, M98). He thus chose only data that supported his foregone conclusion and ignored data that conflicted with it. This selection bias disqualifies the Hubble theory as constituting a "law". A law in physics permits no exceptions. Newton's law of universal gravitation, for example, does not allow for the occasional exception whereby some objects repel each other.

Flawed Assumptions: Hubble did not and could not measure velocities of galaxies. Instead, he relied on the following false or unwarranted assumptions:

1. All galaxies are approximately the same size. This caused him to overestimate the distances of small galaxies and underestimate the distances of large ones.

2. The brightness of a Cepheid star is a function of its distance. The pulsations of these super massive stars are caused by physical changes within the star itself—changes that are a function of the life cycle of the that star, regardless of how far away it may be. An older Cepheid star with slower pulsations in a nearby galaxy would thus appear to be farther away than a newer Cepheid star in a distant galaxy.

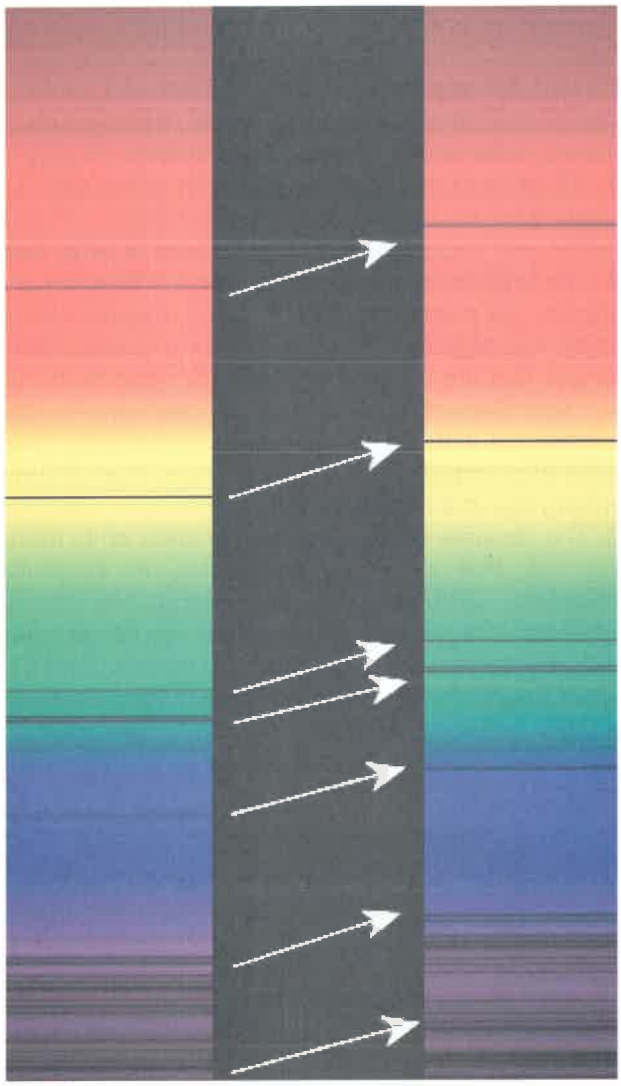
3. The dimness of a galaxy is a function of its motion away, i.e. that as a galaxy retreats, its brightness diminishes. Without also measuring the surface brightness of a galaxy (per unit area), we can conclude absolutely nothing about its supposed motion. Only if the surface brightness of a distant galaxy is significantly less than the surface brightness of nearby galaxies is it reasonable to infer that said galaxy is in motion away from us.

An infrared image of Andromeda, one of the galaxies studied in the formulation of "Hubble's Law". (Image: NASA/JPL-Caltech/Univ. of Ariz.)

4. The redshifting of light from galaxies is caused by the rapid movement of those galaxies away from us. This is the most common error in mainstream cosmology—that of mistakenly believing that redshift is a Doppler effect, whereas in truth they are two fundamentally different phenomena.

5. The extent of the redshift is proportional to the velocity at which the galaxy is presumed to be retreating. Again, redshifting has nothing to do with velocity.

Fallacy of Presumption: Hubble (a) presumed that galaxies are accelerating away from us, (b) found



Absorption lines in the optical spectrum of a supercluster of distant galaxies (BAS11) (right), as compared to those in the optical spectrum of the Sun (left). Arrows are indicating redshift. (Image: Georg Wiora)

mathematical ways to justify this foregone conclusion hidden in his assumption that redshift measures velocity, then (c) developed the mathematics to justify this circular reasoning. In other words, Hubble "knew" in advance that galaxies are moving away from us and was simply trying to find out how fast. Hubble made the pieces fit into his preconceived puzzle.

False premise: Hubble based his entire theory on the misconception that redshift measures velocity. Details explained above indicate that redshift can only be construed as a measure of distance and nothing else.

The following table summarises the data from which Edwin Hubble concluded that galaxies are receding from the Milky Way at a velocity that is proportional to their distance. Entries in the "Presumed Velocity" column indicate the velocities that Hubble inferred from his

Cluster Galaxy	Distance-EH (light-years)	Presumed Velocity (km/sec.)	Ratio (Velocity/Distance)
Virgo	78	1,200	15.4
Ursa Major	1,000	15,000	15.0
Corona Borealis	1,400	22,000	15.7
Bootes	2,500	39,000	15.6
Hydra	3,960	61,000	15.4
Average			**15.4**

measures of redshift (under the presumption that redshift is a Doppler effect). Entries in the "Distance-EH" column indicate the distances that Hubble estimated, based on his multiple flawed assumptions.

The results in the "Ratio" column above are the five points that Hubble posted on a graph to create a straight-line relationship between the distance of a galaxy and how fast it is moving away. These calculations demonstrate a distance-velocity relationship that is considered the ultimate definitive evidence supporting expansion theory.

Something is seriously wrong with Hubble's estimates of distance, however. If we substitute NASA's modern and reliable estimates of distance in the "Distance-NASA" column below, a very different picture emerges.

Brightest Star	Distance-NASA (light-yr.)	Presumed Velocity (km/sec.)	Ratio Velocity/Distance
Arcturus (Bootes)	37	39,000	1,054
Alphecca (Corona Borealis)	75	22,000	293
Alioth (Ursa Major)	81	15,000	185
Alphard (Hydra)	177	61,000	345
Spica (Virgo)	261	1,200	4.5
Average			**376**

If Hubble had used realistic estimates of distance, there would have been no straight line on his graph, only random points indicating a zero correlation between distance and velocity. Thus, it strongly appears that Hubble knew the results he wanted to achieve and plugged in the artificial distance figures he needed to yield those results—a technique commonly referred to as "fudging" the data.

Either galaxies are moving apart, or they are not. The theory which suggests that the distances between galaxies are increasing is fatally flawed. Therefore, we must presume that galaxies are in the same positions relative to each other that they have always been in. This is the same burden of proof that is required in a court of law. If the theory that the defendant is guilty cannot be substantiated, then he must be presumed to be not guilty. The Hubble theory that galaxies are moving apart cannot be substantiated; therefore, we must presume that they are not moving apart.

Hubble's "law" is thus an interesting mathematical diversion that bears no relation to reality. Redshift is not Doppler. Galaxies are not retreating from the Milky Way.

If galaxies are not in retreat, then their imagined velocity of retreat cannot be increasing.

Evidence to the Contrary

We now have evidence that the Universe is not expanding. Neither Edwin Hubble's nor NASA's calculations include measurements of surface brightness (brightness per unit area) of galaxies. Such measurements tell a very different story from what we have been led to believe.

In 1930, mathematical physicist Richard Tolman devised a surface brightness test to determine whether the Universe is static or expanding. The Tolman test compares the surface brightness of galaxies to their degree of redshift. In a static universe, the surface brightness (light received per unit area) of a galaxy is constant regardless of its distance (and regardless of its redshift). In an expanding universe, surface brightness diminishes with distance. For 88 years, mainstream astrophysicists have never checked the validity of their assumptions by means of the Tolman test. They all accept, on blind faith, Slipher's error of mistaking redshift for a Doppler effect.

In 2014, Eric Lerner and a team of astrophysicists applied the Tolman test by measuring the surface brightness (per unit area) of over 1,000 near and far galaxies. If galaxies were moving away from each other, they would appear fainter the farther away they get, i.e. their surface brightness would diminish. Lerner's team, however, found that in every case surface brightness remains constant regardless of distance. If any galaxy had been in motion away from us, its surface brightness would have been much less than that of the other galaxies measured. This does not happen. Thus, there is zero tangible evidence that galaxies are moving apart and overwhelming evidence that they are not. [*International Journal of Modern Physics D vol. 23, No. 6 (2014) 1450058*]

One thousand galaxies in the above study is a statistically significant sample size from which to project meaningful data about the entire known Universe. It is 200 times the number of galaxies that Edwin Hubble included in his biased sample.

Conclusion: galaxies are not moving apart. They are in the same relative positions to each other that they have always been in.

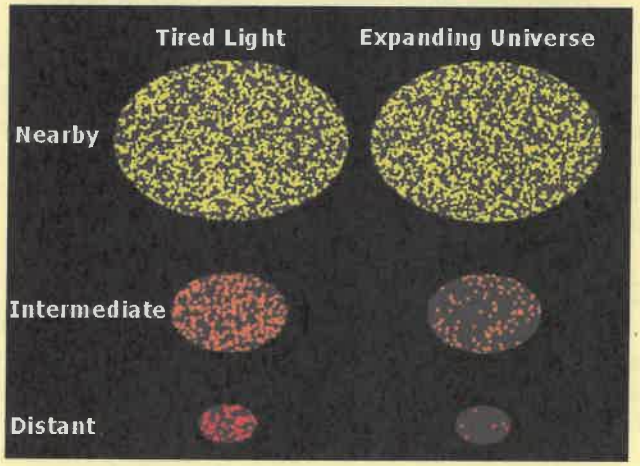
Andromeda is No Exception

In 1924, Edwin Hubble studied Andromeda and estimated that it was 900,000 light-years away from us. (NASA's latest estimate places Andromeda at 2.5 million light-years distance.)

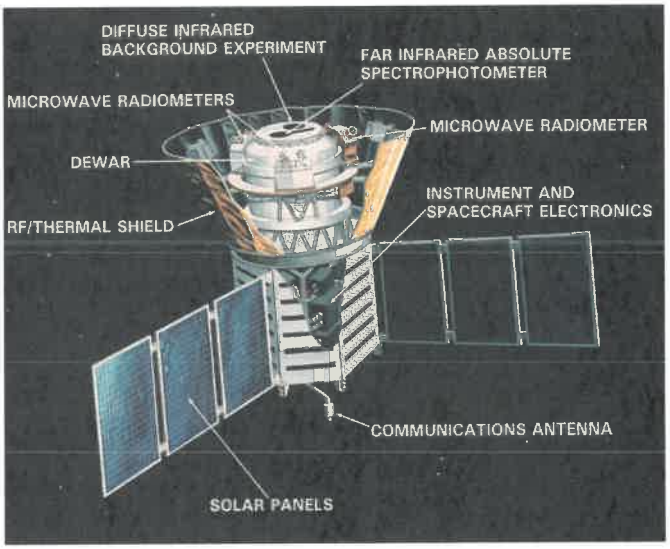
In 1925, Vesto Slipher presumed that galaxies from which light is redshifted are in motion away from us—and conversely, those from which light is blueshifted are in motion toward us. Slipher estimated that some galaxies were retreating from us at the rate of 1,100 km per second—and Andromeda appeared to be approaching us at 300 km per second, based on the degree to which its light was shifted toward the blue end of the spectrum.

In 1927, Hubble conveniently omitted the supposedly approaching Andromeda from the data on which he based his conclusion that galaxies are retreating from us at a velocity that is proportional to their distance away (Hubble's "law"). This is selection bias at its worst. To include Andromeda would be like Isaac Newton saying that there are exceptions whereby some kinds of fruit fall upwards.

In 2014, Eric Lerner demonstrated that the surface brightness of 1,000 near and far galaxies is constant, without exception. This means that (a) galaxies from which light is redshifted are not moving away from us, and (b) galaxies from which light is blueshifted (e.g. Andromeda, M86, M90, M98) are not moving towards us.



According to the tired light hypothesis, given a simple (static and flat) universe, the photons per second received from an object drops proportional to the square of its distance and the apparent area of the object also drops proportional to the square of the distance, so the photons received per surface area per unit time would be constant, independent of the distance, even though the surface brightness is reduced because of tired light reddening. In an expanding universe, however, there are two effects that change this relation. First, the rate at which photons are received is reduced because each photon has to travel a little farther than the one before. Second, the energy of each photon observed is reduced by the redshift. At the same time, distant objects appear larger than they really are because the photons observed were emitted at a time when the object was closer. Adding these effects together, the surface brightness in a simple expanding universe (flat geometry and uniform expansion over the range of redshifts observed) should decrease with the fourth power of (1+z).
(Image: Stigmatella aurantiaca)



Cosmic Background Explorer (COBE /ˈkoʊbi/), also referred to as Explorer 66, was a satellite dedicated to cosmology, which operated from 1989 to 1993.

If Andromeda were approaching us, its surface brightness (per unit area) would be more intense than the surface brightness of galaxies that are much farther away—but it is not. Surface brightness of all galaxies is constant, regardless of their distance away. We are not on a collision course with Andromeda.

Cosmic Microwave Background

In 1964, cosmic microwave background (CMB) radiation was discovered. Big Bang proponents had been searching for confirming evidence for their singularity theory, and this appeared to be it.

CMB radiation can be detected by telescope in every direction as a patchy background, about 13.4 billion light-years away. This is mistakenly believed to be thermal radiation left over from "recombination", the epoch during which charged electrons and protons supposedly first became bound to form electrically neutral hydrogen atoms, shortly after the alleged "Big Bang". The assumption is that hydrogen, the lightest element, was made exclusively during the Big Bang. Ionised hydrogen gas, however, now and always has permeated the entire Universe.

From 1989 until 1993, satellite Explorer 66 investigated the cosmic microwave background. Astrophysicists expected to see evidence of directional dependency (anisotropy) that could be traced back to the site of the alleged "Big Bang". That was not what they saw, however. Instead, Explorer 66 measured an isotropic blackbody spectrum with little variation across the sky. (A blackbody is a physical body with no reflective power that absorbs all incident electromagnetic radiation.)

NASA confirms that the CMB follows the precise curve for blackbody radiation. A blackbody is an opaque object in space that absorbs radiation of all wavelengths that fall on it. Then, when the blackbody is at a very hot and uniform temperature, it emits its own radiation that is outside the visible spectrum of light. NASA's measurements show that this blackbody curve peaks at 0.3 cm wavelength and 100 GHz frequency, which is at the high end of the microwave spectrum. The blackbodies in question could simply be interstellar dust.

The cosmic microwave background is smooth and looks the same in all directions for the same reason that a fog looks smooth and uniform in all directions. The CMB is, in a sense, an electromagnetic fog.

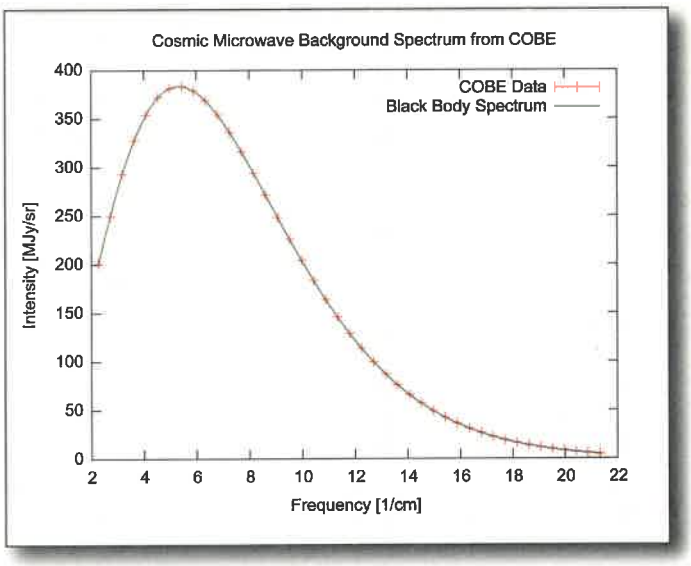
Bang Goes the Theory

The prevailing and firmly entrenched cosmological model for the Universe is that it was created by a "big bang" explosion that happened some 13.8 billion years ago. This date was arrived at by working backwards in time from equations that purport to measure the Universe's rate of expansion.

According to this theory, the entire Universe began from some tiny point (or microdot, or quantum) violently exploding out pure energy which almost instantly became particles and then atoms which combined to form elements, molecules, gases, stars, and galaxies. In other words, the Universe spontaneously created itself from nothing. This is mythology, not science.

Proposing a "big bang" or other singularity as cause does not answer the question as to how the Universe was created. It simply raises another question as to how the singularity was created.

Points are artificial mathematical abstractions used to specify locations on a graph. Points do not in fact exist. Some variations of the theory are vague about naming what it was that was supposed to have exploded but suggest it was something that had zero dimensions. This



Data from COBE showed a perfect fit between the black body curve predicted by big bang theory and that observed in the microwave background.

is the same faulty logic. To have zero dimensions is to have zero existence.

Some Big Bang theorists believe that the hypothetical (supposed) singularity was a tiny, solid mass with all the matter in the Universe compacted into the tiniest bit of space, and then it blew up. This makes no sense. Even if it were possible to compress so much mass into such a small space, the intense gravity would have caused it to implode inward rather than explode outward. In addition to this scientific impossibility, there are also two logical errors: (1) all the matter in the Universe existed before there was a Universe, and (2) something compacted all this matter before any means of compaction existed.

The Universe is defined as everything which exists. Big Bang theory imagines that the something which created the Universe existed prior to existence—a contradiction in terms.

Space is defined as the expanse of the Universe beyond the Earth's atmosphere. Space is in the Universe; the Universe is not in space. Big Bang theory assumes that the something which created the Universe was located somewhere before the concept of location (i.e. in space) existed—a second contradiction in terms.

Time is defined as the continuous duration of existence as seen as a series of events. Without existence and events, the concept of time has no meaning. Time is in the Universe; the Universe is not in time. Big Bang theory assumes there was a point in time at which time began—a third contradiction in terms.

Many Big Bang proponents, in defence of this ill-conceived theory, claim that it was not a single point in space that exploded but rather every point in the Universe participated in the "Big Bang". In other words, the explosion happened everywhere at the same time and not at any specific location. Whether one location or every location existed prior to existence is an equally silly argument.

The Big Bang theory is mythology, not science. It defies logic, the science of reasoning and thinking.

An Infinite Universe

The Big Bang theory is hereby disproven logically. It is an impossibility. All the evidence supposedly supporting this mythical event has been misinterpreted.

One wonders how mainstream science could be so wrong for so long. It is the lure of mathematics. The equations supporting the expansion theory of the Universe are enticing, produce mathematically verifiable results, and create a framework that supports other exciting theories. But there is a problem. Numbers are abstract symbols quantifying something, but that something does not have to be real for the mathematics to work out. From false assumptions, beautiful equations can be created that bear no relation to reality.

Mathematics is a derivative of logic. Ironically, astrophysicists and cosmologists use mathematics to discredit the logic which tells us that a big bang never happened.

Either the Universe was created by a (big bang) singularity or it was not. If it was not created at some point in time, then it has always been here. There is no third possibility.

Theoretical physicists usually balk at this kind of argument. They want to know the alternative theory and where the evidence is to support it. Neither is required. In a court of law, if guilt cannot be proven, then the defendant is presumed to be not guilty. The same reasoning holds here. The Big Bang theory states that the Universe is finite; but a "big bang" cannot possibly have happened. Therefore, the Universe must be presumed to be infinite. Case closed.

A Child's Perspective

Parent (P): "Once upon a time, a teeny-weeny dot exploded, creating everything that exists."
Child (C): "Who made this dot?"
P: "Nobody. It was just there."
C: "Where? If nothing existed, there was no place to put a dot."
P: "Stop interrupting. I am trying to tell a story."
C: "And how could a dot exist before there was such a thing as existence?"
P: "Never mind. It just did."
C: "When did this happen?"
P: "Almost 14 billion years ago."
C: "A year is the time it takes for the Earth to circle around the Sun, isn't it?"
P: "Yes."
C: "Before there were planets or suns, there was no such thing as years. Correct?"
P: "Yes."
C: "So how can you say this story began once upon a time? If there weren't any years, there wasn't any time."
P: "Stop trying to be so logical. Not everything is logical."
C: "Apparently not. So why should I believe this story?"
P: "Because I said so."

About the Author

David Rowland is a polymath who is an expert on holistic nutrition and has authored 10 books on the subject. He is author of the books *What We Know About the Universe That Isn't So: Science at a Crossroads* and *The Origin of Everything: Uniting Science and Philosophy* (see Reviews 25/05). Rowland is self-educated in several fields, a member of the Royal Astronomical Society of Canada, and a philosopher in the original sense of the word, meaning "lover of wisdom".

The Historical Jesus Discovered

The King Jesus Trilogy

(in four parts)

by Ralph Ellis

Q. Why is Jesus missing from the historical record?

A. Because the real Jesus did not fit Church fantasy.

The *King Jesus Trilogy* takes readers on a roller-coaster journey through biblical history, and uncovers the many truths that the Church thought they had buried forever.

It begins with the many links between the biblical family and the royal dynasties of Egypt and Persia - how the Nativity story dovetails with the exile of Queen Thermusa of Persia to Syria and Judaea.

It continues with evidence that Saul (St Paul) was Josephus Flavius - a curious equivalence that transforms and re-dates the gospel stories, and implies that Josephus did indeed record the life of the biblical Jesus.

The Trilogy moves up a gear, and demonstrates that the biblical King Jesus Em-Manuel of Judaea was King Izas Manu VI of Edessa, who owned the largest palace and tomb in Jerusalem. And Josephus says that King Izas Manu was crucified in Jerusalem while wearing a Crown of Thorns, but was taken down early by Josephus himself and survived.

The fourth instalment of this compelling trilogy then explains how this decidedly heretical secular history of Jesus was reworked by the Knights Templar into a more acceptable mythology, to become Arthurian Legend. Yes, the legendary story of King Arthur was based upon the true secular life of King Jesus Manu of Edessa.

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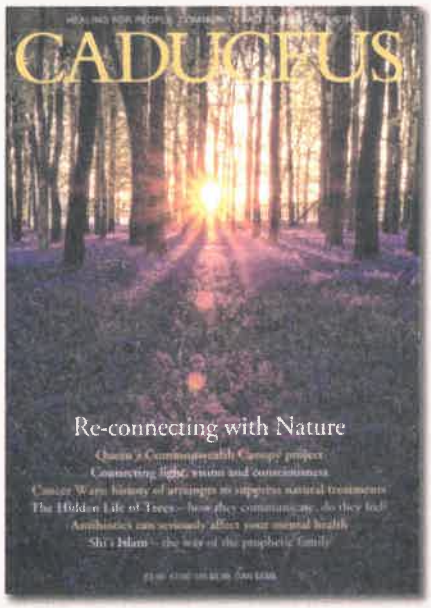

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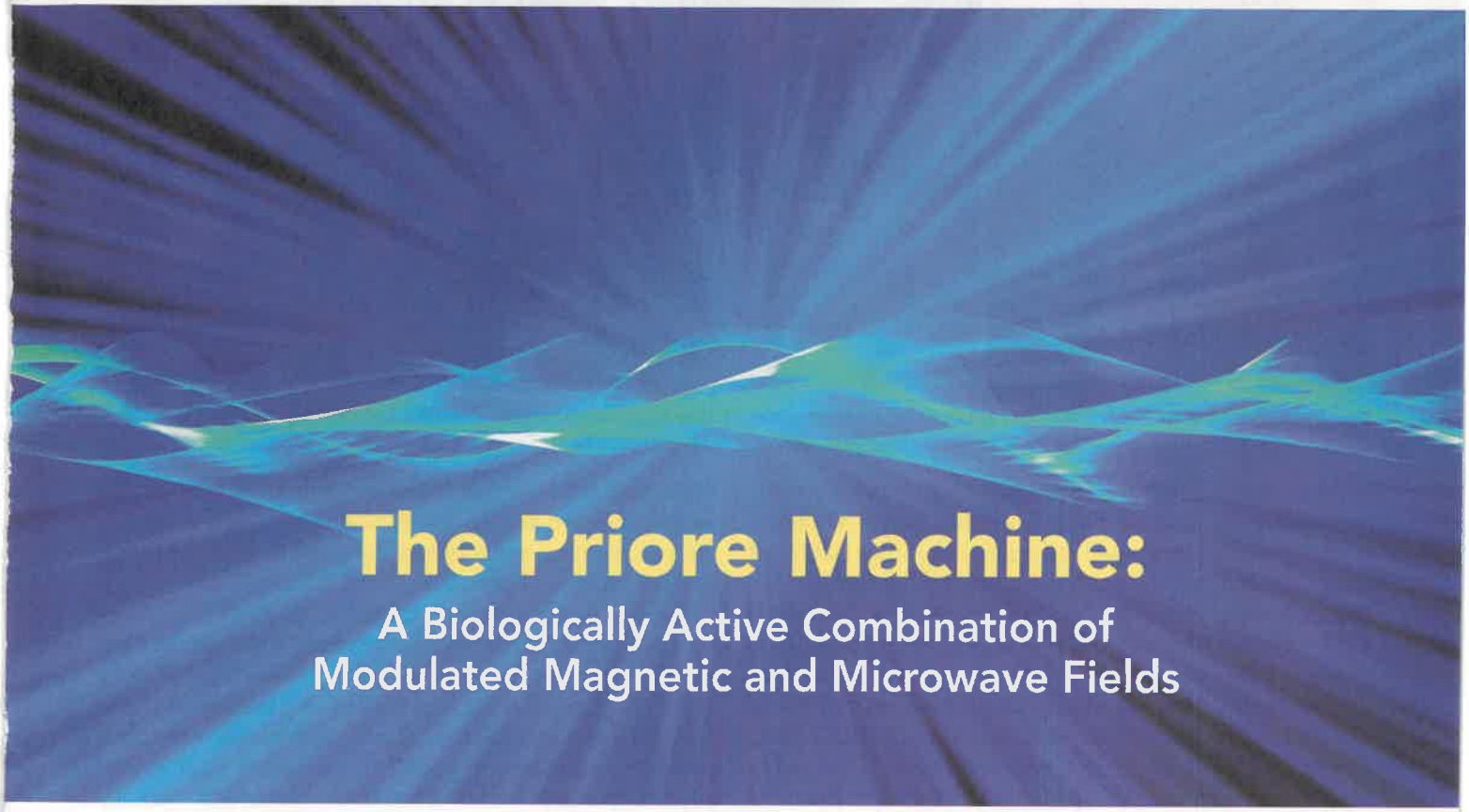


The Priore Machine:

A Biologically Active Combination of Modulated Magnetic and Microwave Fields

Office of Naval Research, (London): Report R-5-78 (August 16, 1978) by J.B. Bateman

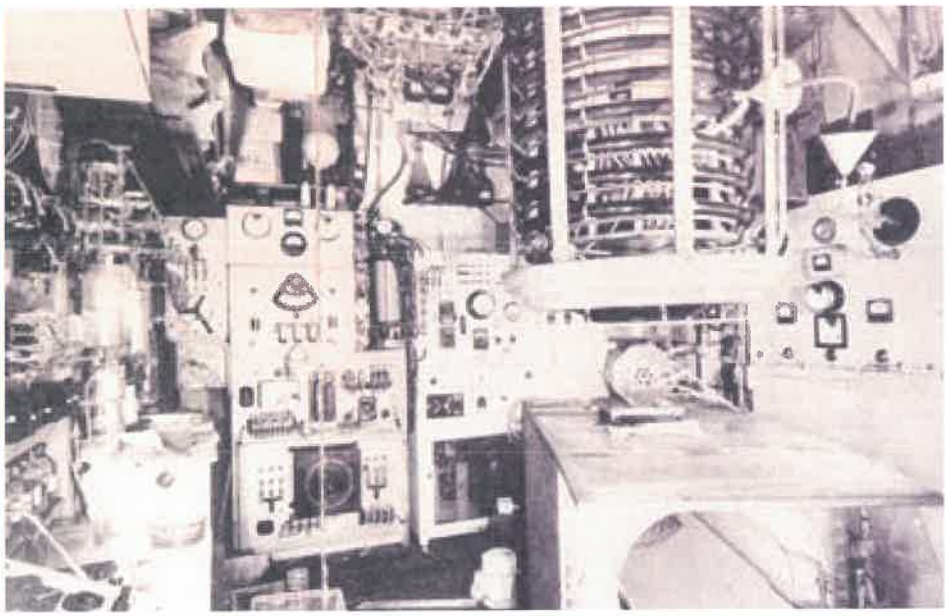
Introduction:

A very complicated generator invented by Antoine Priore (or Prioré), a former radar operator without academic qualification, has been said to produce radiation which causes certain implanted animal tumours to regress and cures trypanosomiasis in certain laboratory animals. There are several remarkable things about the papers describing these biological effects, the most remarkable being the contrast between the careful detail in which the biological data themselves are presented and the absence of anything but the most vague, and often contradictory, information about the generator. I have given examples of these disparities elsewhere[1].

A first consequence of the publication of these communications in the *Comptes rendus de l'Académie des Sciences* (Paris) was a violent polarisation of opinion within the Academy and in other French scientific circles.

There were some who wished to ignore or deny any phenomenon, however completely attested, brought about by inadequately specified means; they would have opposed presentation of the reports to the Academy and would probably have succeeded in suppressing them but for the determined sponsorship of the distinguished secrétaire-perpétuel, Prof. Robert Courrier. Others felt that the importance of the results, if they could be confirmed, made further investigation imperative: if possible, with disclosure of the inventor's "secret"; if not, then without it.

A second result was the journalistic exploitation of a situation brimming over with human interest. Commentators[2,3,4,5] ranged from a writer in *Esquire* who has since followed another path to notoriety[3] to Lord (Solly) Zuckerman writing in popular vein[4]. None of them resisted the regrettable impulse to step up the popular appeal by introducing scientifically irrelevant biographical details about Priore in order to demonstrate his



Left: Prioré and Prof. Pautrizel under the bottom face of the apparatus **Right:** Prioré's Laboratory in the 1960s (Images: www.priore-cancer.com)

worthiness for political patronage, which indeed he has received in abundance. Aside from this, they maintained a nice balance between sympathy for the victim of prejudice and healthy scepticism toward his work.

Zuckerman, in a lecture given at the Lovelace Foundation in Albuquerque[5], gives Priore an honourable place in his catalogue of those whose innovative achievements remained unrecognised because of conservative prejudice and ignorance, from Babbage to Peyton Rous, though not without leaving himself a loophole should the initial promise not be kept. The main point, he insists, is that people who believe in what they are doing should refuse to be discouraged in an atmosphere of incomprehension and hostility.

The present report is the outcome of a visit to Priore's establishment sponsored by the organisation ADERA for those attending a course of instruction on microwave exposure hazards[6]. I shall write very briefly about the alleged biological effects, then about the Priore invention itself and the nature of its biologically active output. Impressions and private conversations bearing on these matters will be mentioned when they add, reliably or otherwise, to the total picture.

Biological Observations

There is a pre-history of verbal recollection and gossip connected with the Priore invention. Priore himself is said[3] to have become interested in possible medical applications of electromagnetic waves upon observing that fruit and vegetables could be preserved by exposure to ultra-high frequency fields. A machine was built from US Army surplus and at some stage sick persons were placed in the field generated[3].

According to a US scientist who has been interested in repeating some of the Priore experiments, a politically well-connected lady who was cured in this way of cancer after receiving a prognosis of early death is still enjoying perfect health in Bordeaux.

The first experiments on cancerous animals were done by Delmon and Biraben who withheld their results from publication after receiving an unfavourable report from a committee, and because of a fear that publication would prejudice the candidature of one of them for admission to a fellowship (aggregation)[7]. They used rats implanted subcutaneously with a well-characterised uterine carcinoma, the so-called T8 (Guérin), having previously studied the effects of x-rays and of pulsed magnetic fields upon these animals without finding anything particularly noteworthy. The magnetic fields had no effect on tumour growth or on the occurrence of lymph node metastases, while the remission produced by x-rays was only transient. After exposure to the window of Priore's machine, on the other hand, tumour growth could be stopped for as long as three months afterwards. The animals recovered good general health, and lymph node metastases were seldom seen.[8]

The T8 tumour in rats was also used by Rivière and colleagues[9] from Guérint's laboratory in the cancer institute at Villejuif. They found macroscopic regression of the tumours and of metastases after treatment and observed no relapses up to three months thereafter. Their publication anticipated that of Delmon and Biraben.

Rivière and colleagues then worked with rats implanted with a lymphoblastic lymphosarcoma which when untreated invariably proved fatal within 11 to 15 days, with generalised colonisation of the nodes and a leukemic syndrome. Treatment under the Priore machine led to total regression of the graft and of the

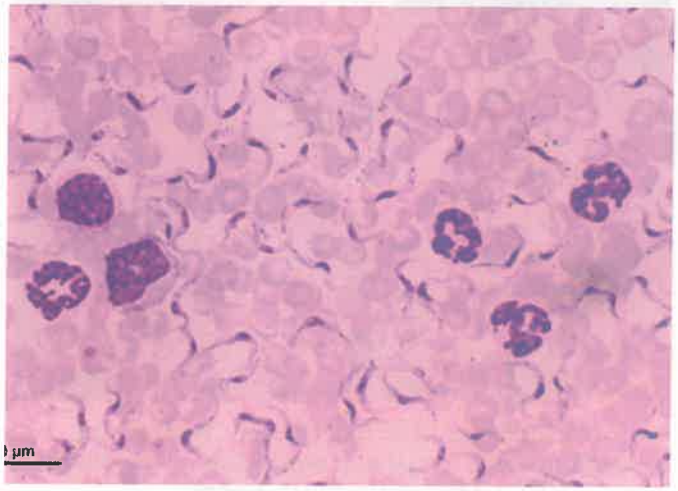
accompanying metastatic and leukemic phenomena[10]. Certain of these experiments were done with animals from Courrier's laboratory under the constant supervision of his assistant Madame Colonge. The results were the same, and Courrier reported them in an addendum to a further paper by Rivière et al[11] describing comparable results with a mouse lymphosarcoma. Further studies with the rat[12] yielded the discovery that treated rats clinically free of the lymphosarcoma were able to resorb a second transplant of the isologous tumour while succumbing to an homologous tumour of a histologically different type.

Courrier[7] complained that, because of a campaign of disparagement, no French "cancerologists" offered to repeat these experiments. Short-lived cooperation was however forthcoming from an English laboratory. According to one account[2], cancerous mice were sent over to Priore's establishment and some healthy ones were later sent from there to England, but the latter were not the ones that had been sent for treatment. The anonymous director of the English laboratory withdrew his cooperation, though not without providing "a French colleague" with a detailed memorandum. In 1977 Courrier issued his own account of the episode and identified the persons concerned[7]. The director was the late Sir Alexander Haddow (Institute of Cancer Research, Royal Cancer Hospital, Univ. of London), and his envoys to Floirac were E. Whiss and Dr and Mrs E. J. Ambrose, the latter being scientists of some repute. Courrier was evidently not persuaded that any substitution had taken place, for he wrote that the rumour was put about *on fait courir le bruit...*

When I asked about his plan to publish the evidence in detail, he told me that he had not found a journal willing to accept such a manuscript.

The discovery of specific anti-tumour immunity in the treated animals may have lent force to the hunch that the Priore radiation might act upon the immune system of the host rather than directly upon the cancer cells. At any rate, Prof. Raymond Pautrizel, a parasitologist already associated with the work of Rivière and Guérin, exposed mice after they had been injected with a dose of *Trypanosoma equiperdum* sufficient to kill them within five days if untreated, and they all survived[13]. At this point extraordinary measures were taken to remove all suspicion of fraud. The experiments were repeated successfully under lock and key and under the eye of a bailiff appointed by a "Commission de Contrôle" composed of university officials and local dignitaries. The official report was certified by all the members of the Commission. A positive result obtained under such conditions, said Courrier, should have put an end to all criticism from men of good faith[7].

In a further series of short papers in the *Comptes rendus Acad. Sci.* Paris[14,15,16] this indirect effect upon the immune system of animals infected with *T. equiperdum* was confirmed and elaborated. These brief published statements represent a lot of work: just how much was apparent from a lecture given by Pautrizel during my visit to Floirac. When I asked about his plan to publish the evidence in detail, he told me that he had not found a journal willing to accept such a manuscript.

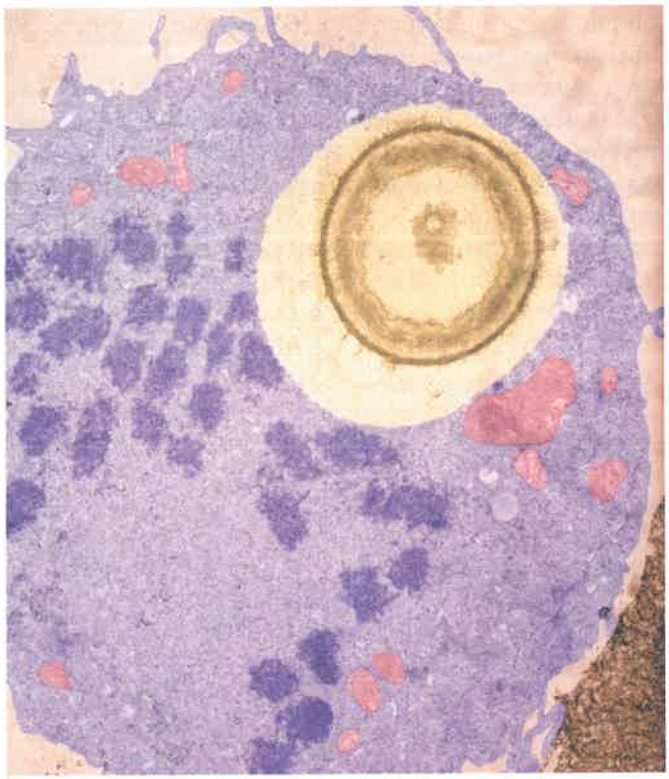


Trypanosoma equiperdum

The evidence presented, furnished by experiments on mice[13,14,16], rats[14] and rabbits[15], follows fairly conventional lines which I shall not attempt to review in detail. Briefly: the pathogenic organisms disappeared from the treated animals, which survived indefinitely. In rare cases where the parasites reappeared, they were of a different antigenic type from those causing the original infection. Treatment brought about an intense acquired immunity. Some animals were reinfected seven times over a period of six months, eventually with 100 times the original, and otherwise invariably fatal, dose, multiple reinfection resulted in a high titre of agglutinating antibodies.

The blood of these animals conferred upon other normal animals an immunity which persisted for about 45 days. Treatment with an immunosuppressor, cyclophosphamide, depressed, but did not abolish, the appearance of agglutinating antibody when infected animals were subjected to Priore irradiation, although relapse occurred after about 12 days. Newborn animals died of the infection whether irradiated or not, and the organisms found in their blood were of the original strain.

Trypanosomal antigen of unspecified nature, injected intraperitoneally after the first irradiation of infected animals, caused an enhancement of antibody production. When the parasites were protected from the host's immune system by being implanted in a diffusion chamber, Priore irradiation failed to inhibit their multiplication. In his talk, Pautrizel said that in order to



Macrophages (light blue) ingest *Cryptococcus neoformans*, a fungal pathogen (pale yellow circle). (Image: Carolina Coelho)

elucidate further the apparent effect of irradiation in exalting the mobilisation of the immune system, the course of change of immunoglobulins M and G of albumin/globulin ratio, and of agglutinating and haemagglutinating titres was followed in irradiated and reinfected animals for about one year. The data were given in detail. With no time in which to understand, much less to assimilate them, I was left only with the impression that a clear picture has yet to emerge—a conclusion apparently shared by Prof. Czersky of Warsaw. One point of interest was the passing mention of a failure to modify the course of a malarial infection. This is not surprising, perhaps, remembering the vastly more complex life cycle of the plasmodium and its greater antigenic variability.

The postulated general stimulation of "defence mechanisms" by the output of the Priore machine led Pautrizel to ask whether this effect might extend to the prevention or cure of atherosclerosis. Another short paper communicated, as usual, by Courrier[17], described a "spectacular" attenuation of the hyperlipaemia induced in rabbits by a diet of "industrial granules" supplemented by one per cent of cholesterol, resulting in a daily cholesterol intake by each rabbit of about one gram. The observed effect of irradiation took the form of an inhibition of increased cholesterolaemia, persisting for several weeks after treatment, and a marked decrease in the extent of aortic deposition. I find the data rather unconvincing, with quite a lot of overlap of experimental and control values. As for the explanation of the effect, if it can be confirmed, Pautrizel and colleagues[17] ask whether it could be due to an activation of lipid catabolism.

Strangely enough they do not discuss the role of macrophages in the regression of tumours, the cure of trypanosomiasis, or the prevention of hypercholesterolaemia, although macrophage mobilisation might provide a common mechanism.

The Invention

Much has been written deploring Priore's secretiveness. It has been an embarrassment in one camp and a ground for dismissing his invention in another. My own view is that a secretive inventor and his invention, if important, must be investigated as a part of the external world, and the obstacle posed by limited cooperation accepted in the spirit in which the inaccessibility of nature is accepted as a challenge to our wits.

Priore has in fact been much more considerate than the Almighty, who after all has provided no blueprints to his creations, while Priore included in his first paper a footnote[9] informing us that the physical principle of his invention has been the subject of a patent[18]. How strange that none of the journalistic commentators, from Zuckerman down the line, have thought it worthwhile even to mention the existence of this document. When drawing it to the attention or several members of the party visiting Floirac, I found astonishment at its existence followed by doubts as to whether, since they had not read it, it could contain any information of value. I had no opportunity to ask Priore about it, but an associate who did so met with a similar response: it won't help very much, he said. Nevertheless the apparatus described is presumably that used by Rivière, in whose paper it is mentioned, and the amount of detail given is such that, unless indeed it is fraudulent, a reasonable guess as to the nature of the emerging radiation ought to be possible for people competent in the field.

With this in mind I planned to include only a summary in this report, but have now decided upon a full translation (Appendix), without which the odd flavour of the document would be lost. A seemingly reasonable description of components and layout is coupled with a quaint—some might say superstitious—intrusion of pseudo biology and mention of electrophysiological pioneers whose identity can only be guessed through a haze of misspellings. There is, for instance, the choice of modulation frequency of the magnetic field to match the rhythm of the patient's heartbeat. There is, too, the comment that the best results are obtained when the cathode generating a stream of positive ions is made of molybdenum, the metal whose valency is closest to the mean valency of the chemical molecules constituting living tissues.

I leave the reader to form his own impression of the invention described in the patent, save to mention that the active radiation emerges from a tube containing a rotating deflector upon which impinge, from several different sources, a stream of positive ions accelerated in a cyclotron, a beam of centimetre waves generated by a magnetron, and a magnetic field. Any or all of these may be chopped or modulated according to various patterns. The machine was working during the visit to Floirac.

One could see the exit of the tube beneath which the biological targets are placed. There was a certain amount of rumbling and crackling, and the pinkish luminescent plasma appeared to be turbulent. I asked about the speed of rotation but was told by one of Priore's assistants that the information is strictly confidential. I could guess it to be well under 100 rpm.

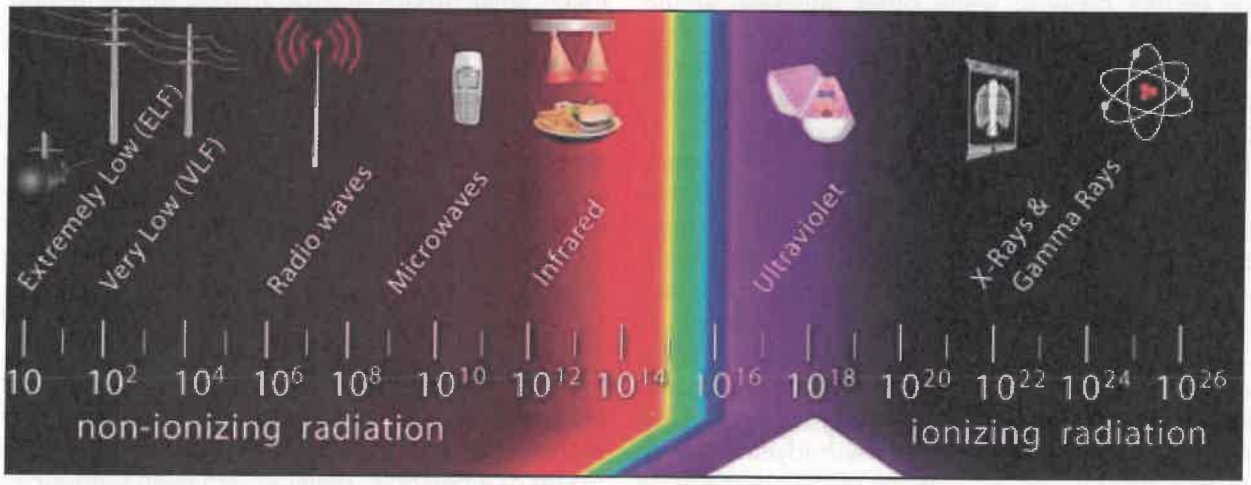
The Emergent Field

After several misleading statements about the nature of the biologically active field generated by Priore's machine (mentioned in endnote 1), a short paper in the *Comptes rendus* described the results of experiments in which two physicists of established reputation had been allowed to cooperate with Priore, Pautrizel, and their associates. Berteaud and Bottreau[19] were able to analyse the radiation in some detail, up to x- and gamma-ray frequencies. Their report is confined to the assertion that they have established the presence of a 904 GHz pulsed electromagnetic wave, amplitude modulated at HF frequency 17 MHz, and a slowly modulated continuous magnetic field of the order of 1 kG. Other components, if detected, are not mentioned. There exists, I am told, a confidential report of the whole investigation. Bottreau assured me personally that there was no trace of ionising radiation.

Berteaud and coworkers[19] also mapped the intensity distribution of these radiations in a plane perpendicular to the axis of the apparatus. Then, using as targets mice infected with *T. equiperdum*, they were able to demonstrate a simple relationship between the rate of decrease of parasitaemia in these animals and the relative intensity of the UHF component. However, in separate experiments they found that fatalities among infected mice were not decreased when the animals were exposed to an unmodulated 9.4 GHz field of comparable intensity. They concluded that the UHF field generated by Priore's machine is a necessary but not sufficient condition for the observed biological effects.

The results of Berteaud et al. leave us with some unanswered questions. If their analysis of the field was complete, the biological activity must rest jointly on the UHF component and the magnetic field. How critical are the exact values of the many parameters involved and the relationship between them for the manifestation of biological activity? Is it possible that the methods available to Berteaud and co-workers were incapable of furnishing a complete analysis?

One can only speculate. It has struck me that in all the papers describing the biological effects of this radiation, there is nowhere any mention of any search for the correct operating conditions of the machine. Apparently the machine, if it works at all, always produces results, and one must remember that two different models have been built and found to be effective. The one quantity that is regularly mentioned is the magnetic field strength, 620 G in the first model and 1240 G in the second. The patent document seems to suggest that there is great flexibility in the mode of operation. It is moreover almost inconceivable that Priore could have had any genuine theoretical basis upon which to favour one particular set



The electromagnetic spectrum, a chart of the different types of electromagnetic radiation ordered by increasing frequency. The frequency in hertz is given on the scale at bottom. The most familiar form of electromagnetic radiation is visible light (centre), with infrared (IR) and ultraviolet (UV) light on either side. The higher frequencies of EM radiation (right) consisting of x-rays and gamma rays, are types of ionising radiation. Lower frequency radiation (left), consisting of light, infrared (IR), microwave (MW), radio frequency (RF), and extremely low frequency (ELF) are types of non-ionising radiation.

of patterns over another in relation to biological changes that are themselves of intractable complexity and totally unpredictable. One is bound to suspect that the exact mix is anything but critical, and that if the reported biological effects are genuine they might very well be brought about by much simpler means. It is of some interest that extremely sharp frequency selectivity has been claimed in recent biological experiments with monochromatic microwaves, in contrast to the sort of flat response surmised in the present context.

The main component: the plasma tube

The need for fine tuning could of course be obviated in a machine designed for sturdiness and broad applicability by arranging for it to generate "white" energy with respect to the several decisive characteristics, including modulation frequencies and perhaps their derivatives, or alternatively to generate an output which varies rapidly in real time, systematically or randomly, over a sufficiently wide range of values. The biological effects of such radiation would then be the sum of various qualitatively and quantitatively different selective processes including the possible cancellation of additive effects such as stimulation and inhibition. However, total nullification would be no more likely than it is, for instance, in the visible everyday consequences of illumination by sunlight. Such an approach, if it has been adopted by Priore or if it has emerged fortuitously as an unforeseen property of an assemblage of components chosen on the basis of some other rationale, would account for the extravagance of the machine in energy consumption in return for a very modest biological yield. There is no immediate evidence for this in the statements of Berteaud and Bottreau[19], but the relevant quality of "whiteness" might apply pertinently to other parameters than those investigated by them. The possibility that some hitherto unrecognised feature of the radiation from a rotating plasma may be responsible for the Priore effects should not be dismissed out of hand, at any rate by those who, like myself, know nothing about plasmas.

Dr John Carstoiu of Brookline, MA, who counts among his accomplishments an extension of the Maxwell equations to the evaluation of ponderomotor forces, likes to call the Priore machine a magnetohydrodynamic wave guide. He considers the acceleration of the plasma to be a significant feature. He refers to the various types of oscillation that may be set up but does not, and presumably cannot, say how they can manifest themselves across a quartz window.

One's naive reaction is to doubt, in any case, whether the accelerations attainable in an apparatus as described in the patent document would be great enough to initiate a gravitational wave of any significance. Unless the suggestion is an obvious absurdity to a plasma physicist, somebody will have to do the arithmetic.

The New Generator

The further development of Priore's invention is being done under the auspices of an organisation set up for the purpose: the Société d'Exploitation du Rayonnement Antoine Priore (SERAP) which brings Priore into formal relationship with a company, Moteurs Leroy Somer of Angouleme. This company has been the recipient of a $0.7 million contract from the DGRST (Delégation Générale à la Recherche Scientifique et Technique) for the construction of a third machine of greatly increased output. Priore has been reported[3] to predict that the cost is more likely to be $3 million. No doubt other sources of funding are available. In return for such support Priore promises a much bigger and better machine that will generate a more intense field of much larger cross section than those with which the results already reported were obtained. So, one can guess, larger groups of small animals will be irradiated simultaneously for shorter periods than formerly and the rate of accumulation of data will increase—if, that is, the biological measurements can keep pace. Perhaps too, by the same token, small groups of large animals will be treated, with the single sick human as the ultimate target of the entire endeavour.

Little was learned of this latest development during my visit to Floirac. The Priore residence is coming to look like an industrial laboratory of electrical engineering geared to pilot scale operations. There are rumours of serious technical difficulties such as might have been anticipated in scaling up such a complicated device. It is said to be proving difficult, for instance, to construct a pyrex container able to cope with the very high energy flux in the plasma.

Is the new machine really needed? At the technical level the answer is almost certainly "no". Evidently technical considerations are overruled by others, no doubt of a personal, political, and even patriotic nature. The whole operation takes on a farcical aspect when one considers that the only genuine need in the present state of affairs is to get independent confirmation, or refutation, of results already obtained with equipment that was clearly adequate for the original experiments.

The funds now made available would suffice for the building of several replicas of the Mark 2 machine. These, placed in selected centres of research, could be used by independent teams for a critical repetition and extension of earlier findings. The success or otherwise of the time-consuming attempt to build a giant machine is largely irrelevant to the central doubts that persist as to the claims made for the Priore radiation, and this expensive diversion of effort betrays a certain recklessness which ill serves the quest for a solution to the mystery surrounding "L'affaire Priore."

This article was originally posted at http://rexresearch.com/priore/priore.htm#1

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Endnotes

Note: References (3) to (5) have been available to me only in the form of translations into French and I therefore cite them in this form, with the original English reference when available.

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IRAN'S MYSTERIOUS MATRIARCHAL BURNT CITY

The Burnt City, birthplace of a glorious matriarchal civilisation which emerged over 5,200 years ago, has left its mysterious trail beneath the plains of Iran's southeastern province of Sistan-and-Baluchestan. The title "Burnt City," or Shahr-e Soukhteh in Persian, is not the original name of the city but it has been used over the past three centuries due to numerous remains of ash across the UNESCO World Heritage site.

Findings show the construction of the prehistoric city started around 3,200 BCE on the bank of the Helmand River along the current Zahedan-Zabol road, but it was abandoned for unknown reasons over a millennium later around 1,800 BCE after experiencing four stages of urbanisation.

Contrary to what the title implies, the city was not abandoned as a result of fire and the traces of ash are said to be the remains of ovens used by the residents of the city.

Some theories suggest that the city was abandoned due to climate change and drought, but the actual reasons for the demise of the civilisation are still wrapped in mystery.

It has been speculated that the Bronze Age urban settlement might ultimately provide concrete evidence of a civilisation east of prehistoric Persia that was independent of ancient Mesopotamia.

Discoveries from the site demonstrate that the city was a hub of trading routes which linked Mesopotamia and Iran with the Central Asian an Indian civilisations as well as China.

The city comprises various compounds of intricately-designed structures made of mud bricks, including a large palace, as well as separate neighbourhoods for residential purposes, industrial activities and production of local goods.

Glorious Civilisation

The 151-hectare ancient site has been under constant excavation since 1967. Although only an estimated four per cent of the city has been unearthed, the findings from this Bronze Age archaeological treasure contain astonishing evidence of how advanced the civilisation was.

Evidence indicates that weaving was one of the main professions in the prehistoric city and the inhabitants made a variety of woven products such as carpets, baskets, and other household items.

The excavations at the Burnt City also suggest that the inhabitants were a race of civilised people who were both farmers and craftspeople. No weapon has ever been discovered at the site, suggesting the peaceful nature of the residents.

The ground of the ancient site is littered with broken pottery, showing that pottery was produced in the city on a massive scale.

The world's first known animation on a pottery vessel was found in Iran's southeastern province of Sistan-and-Baluchestan. The goblet is currently held at the National Museum of Iran in the capital city of Tehran.

The Burnt City that dates to the 4th and 3rd millennium BCE, unexpectedly appeared and then mysteriously disappeared.

Animation pottery vessel found in Shahr-e Soukhteh, Iran. A goat eats from a tree in the images. Late half of 3rd millennium BCE. (Source: Wikimedia Commons)

Matriarchal Civilisation

Archaeological findings also provide evidence that the Burnt City was among rare matriarchal civilisations in human history, where women were responsible for handling the financial affairs of their family and mothers had social prominence.

Excavations of different sites, particularly of the graves of female bodies, have found seals of ownership, suggesting that women were in control of sources of production and food supply.

Insignias which supposedly belonged only to distinguished residents of the city were found in the graves of some female citizens.

According to some palaeoanthropologists, the female owners of the insignias probably used them to seal valuable documents or used the seal to indicate their lofty social status.

Remarkable Discoveries

From among the findings, the archaeologists have found the world's first animation drawing on a goblet. The drawing depicts a goat jumping and grazing when the cup is turned around.

The culture also knew secrets of metallurgy as evidenced by a number of metallurgical finds that were excavated.

Among a variety of artefacts, there is also an original artefact in the form of a game of backgammon composed of 60 pieces from turquoise and agate.

"The board is rectangular and made of ebony, which did not grow in Sistan and merchants used to import it from India... the board features an engraved serpent coiling around itself for 20 times, thus producing 20 slots for the game, more affectionately known in Persian as Nard. The engraving, artistically done, indicates artisans in the Burnt City were masters of the craft.

The oldest known dice are among the finds.

"The 60 pieces were also unearthed inside a terracotta vessel beside the board. They were made of common stones quarried in the city, including agate and turquoise," Mansour Sajjadi, head of the research team described.

The numerous metallurgical finds (e.g. slag and crucible pieces), a ruler with half a millimetre accuracy and many other astonishing tools, indicate that the residents of the city were masters of their time in urbanisation, architecture, mathematics, science, medicine and engineering.

Medical Know-How

In December 2006, archaeologists made the astounding discovery of a 4,800-year-old artificial eyeball belonging to a woman who was 1.82 m tall; much taller than ordinary women of her time.

The hemispherical-shaped eyeball has a diameter of just over 2.5 cm and is made of very light material, probably bitumen paste, coated with a thin layer of gold, and engraved with a central circle as the iris and gold lines resembling sun rays. Tiny holes are drilled on both sides of the eye, through which a golden thread could hold the eyeball in place.

Since microscopic research has shown that the eye socket showed clear imprints of the golden thread, the eyeball must have been worn during her lifetime.

With her shining golden eye she must have been a striking figure, perhaps a soothsayer or an oracle. The woman with the artificial eye was 1.82 m tall (six feet), much taller than the average women of her time. She was aged between 25 and

Skeleton with glass eye ball

30 and had dark, exotic skin.

Archaeologists have also found traces of brain surgery in the Burnt City, going back to over 4,000 years ago. Studies on the skull of a 12-13 year-old female skeleton show the girl underwent brain surgery and survived for nearly nine months after the operation.

Coexistence of Diverse Cultures

A massive 25-hectare cemetery is located west of the city, containing over 25,000 ancient graves in over 10 different types. While the large number of graves shows the huge population of the area, the variety of the types of graves indicate the likelihood of coexistence of several cultures in the ancient city.

The most common form of grave is a semicircular burial chamber which contained the dead body and some of its belongings with the entrance of the tomb sealed off with mud bricks.

Since earth was never directly poured inside the burial chambers, the skeletons of the deceased and their belongings have mainly remained intact.

Some of the skeletons found at the excavated tombs are in foetal position. One hypothesis suggests that the residents of the city believed that the position in which we were born was the proper way for us to leave the earth.

Another characteristic of the tombs is the way husbands and wives were buried together, facing each other.

Although so many items have been discovered during the excavations, none of the remains and symbolisms has helped researchers understand how such an advanced city could have existed over 5,000 years ago, what happened to the civilisation and why we lost track of all the knowledge they had.

The reasons for the unexpected rise and fall of the Burnt City are still wrapped in mystery. What seems especially bizarre about the city is its incongruity with nearby civilisations of the time. It is as if the city just appeared out of nowhere. Shahr-e-Sookhteh could eventually be the evidence to prove that an ancient civilisation to the east of prehistoric Persia was independent from the civilisation of ancient Mesopotamia.

(Source: PressTV.com, 6 June 2018; http://tinyurl.com/y83c5utk; AncientPages.com, 17 November 2014, https://tinyurl.com/ydggyl53; IranReview.org, 25 May 2010; http://tinyurl.com/ya8p57jy)

MALE POPULATION NEARED EXTINCTION AROUND 7,000 YEARS AGO

Some 5,000 to 7,000 years ago, the diversity of Y chromosomes plummeted, leaving a ratio of one fertile man to 17 women in areas across Africa, Europe and Asia.

It's called the "Neolithic Y-chromosome bottleneck", an intense bottleneck in Y-chromosomes in various geographical regions of the Old World around 5,000–7,000 years ago, suggesting a decline in the male effective population size during the Neolithic to approximately one-twentieth of its original level before the Neolithic in regions including Africa, Europe, Asia and the Middle East.

Mitochondrial sequences indicate a continual increase in population size from the Neolithic to the present, suggesting extreme divergences between the demographic size of male and female populations in the bottleneck period.

Since its discovery in 2015, the finding puzzled researchers until modelling suggested that inter-clan warfare between males, or tribalism was the most likely answer.

However there is little discussion regarding the existence of matriarchal cultures and cities of that time period, and further, whether such cultures were the result—or the cause—of fewer breeding males.

(Source: ScienceAlert.com, 31 May 2018; https://tinyurl.com/yd8zd27e)

ELDERLY LADY BEATEN BY NASA AGENTS FOR HER MOON ROCK

By Anthony Bragalia

An elderly grandmother who was physically abused and psychologically tortured by government agents to retrieve a moon rock given to her late husband by astronaut Neil Armstrong has a warning for those who may be in possession of UFO artefacts from Roswell: "They will kill you for it."

And Joann Davis should know. She and her current husband were both bodily injured by a NASA investigator, BATF agents, and the Riverside, CA County police in a sting operation to retrieve the rock that she had in her possession for decades. In a lengthy interview with this author, Davis recounts her horrific experience of subterfuge, intimidation and beating at the hands of agents determined to recover lunar material at any cost.

The Moon Rock Lady's Story

Joann Davis of Prescott, AZ (formerly of Lake Elsinore, CA) accused NASA officials of wrongfully seizing lunar mementos that her husband, Robert Davis, an Apollo Program Engineer with Rockwell International, left her before he passed. In 1969, the fragment of moon material (as well as a piece of the Apollo 11 heat shield) was given to Robert by Armstrong, the first man to walk on the Moon. Both Joann and her late husband Robert worked for aerospace contractor Rockwell for over a quarter-century.

In 2011, Davis had fallen on hard times and was seeking to sell her moon rock. She contacted NASA to find out how she might go about doing so and to get a sense of its value. A NASA official responded to her that he would like to meet with her to discuss the material and the potential sale. She suggested that they meet at a local Denny's restaurant. He agreed.

What happened next strains belief. A total of five law enforcement officers (a NASA investigator named "Conley", BATF agents, and local County police) descended upon her booth. An officer grabbed the lunar material (which was bubble wrapped) and took her current husband by the back of the neck and restrained him by holding his arm behind his back. Then an agent took Joann by the arm and pulled her from the booth. They took her out into the restaurant parking lot alone.

There, according to Davis they "body slammed" her, screaming at her for over two hours that she must surrender all such material in her possession. The agents severely bruised her arm and her tailbone during the confrontation. Fearing further injury, Davis urinated in her pants. They would not let her go to change, so she stood there in wetted pants. Mrs Davis, who, at the time was in her late 70s, stands 4'11" (150 cm). She later drove herself to the emergency room for examination. To this day, Davis experiences neurological pain in her shoulders and back resulting from the incident. She believes that she has permanent damage and that the psychological effects on her will also be lifelong.

When Davis returned home, she found her husband in their house with the agents. The agents, brandishing guns, further intimidated the couple. They told them that they knew she had more material. They demanded that her husband open the safe in his office and traipsed around their home in search of more cosmic rock. When they found nothing more, they finally left.

Mrs Davis retained an attorney and sued NASA. They eventually settled out-of-court. Eight months ago, Davis received $100,000 for wrongful search and seizure, false imprisonment and wrongful detention. The government refused to concede physical abuse.

The Parallels to Roswell Intimidation

When I told Davis that her story sounded strikingly similar to stories alleged by those at Roswell in 1947 who said they were intimidated into submission to give back recovered metal-like debris from the UFO crash that year, she replied: "If someone has such material, they will kill you for it. Trust me. They will make people disappear if they have to."

Her advice to anyone who has Roswell metal: "Go public openly, get ahead of the government. If something should happen to you, people will know it is the government that was responsible."

She adds that she and her husband worked at Rockwell on the Apollo program for many years. She said: "Some people there knew about the Roswell crash. I believe that it really did happen."

Accounts of physical abuse by government to retrieve the ET debris collected by Roswell ranchers and children are numerous. One such account of a Lt Hunter Glynn Penn (a former WWII Air Corps Hells Angel) is related in an article by this author last month, "My Father Murdered Roswell UFO Witnesses".

One must ask: If the government will body slam and bruise a grandma for moon rock, what the hell would they do to someone who had extraterrestrial debris from a UFO crash like Roswell?

(Source: UFOexplorations.com, August 2018)
https://www.ufoexplorations.com/

SACRED GEOMETRY FOR ARTISTS, DREAMERS, AND PHILOSOPHERS
by John Oscar Lieben
Inner Traditions, VT, USA, 2018
ISBN: 978-1620557013, (256pp hc)
www.innertraditions.com

Exploring the art and science of harmonics, John Oscar Lieben shows how to create harmonious forms using the ancient tools of number, geometry, and musical tone—an approach that resonates with nature's own ways of creation.

He demonstrates many practical applications that result from the study of harmonics, providing analyses of ancient sculpture and architecture, as well as original examples of building floor plans, pottery figures based on planetary proportions, gardens based on harmonic principles, and ceremonial spaces that honour cosmic harmonies and sacred geometric relationships.

Showing how harmonics can also be applied to the mysteries of time and space, the author demonstrates how the vesica piscis and many other variations of the vesica shape reveal numerical synchronicities and correspondences that connect cosmic time cycles, measures of space, and musical tones.

The author applies harmonics and the "vesica construction" matrix to illustrate many of nature's wonders, including the Earth–Moon relationship and the interactions of the golden number with the musical scale.

BEYOND UFOS: The Science of Consciousness and Contact with Non Human Intelligence, Vol. 1
edited by Rey Hernandez JD, Jon Klimo PhD and Rudy Schild PhD
FREE, USA, 2018
ISBN: 978-1721088652, (820pp)
www.Experiencer.Org

This comprehensive book details the findings of the world's first multi-language, five-year study on people who have had UFO-related contact with non-human intelligence.

The Dr Edgar Mitchell Foundation for Research into Extraterrestrial and Extraordinary Experiences (FREE) has collected detailed responses to three extensive quantitative and qualitative surveys from over 4,200 individuals from over 100 countries.

The research shows a clear delineation from popularised concepts, including the objectified UFO craft, alien abduction, MILAB and psychopathological analysis of Experiencers.

It is clear that the role of consciousness is of more significance and importance than most might suspect.

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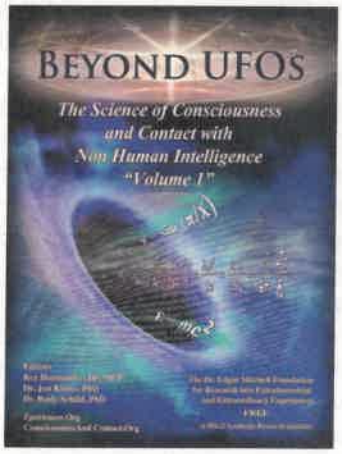

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LIQUID CONSPIRACY 2: The CIA, MI6 and Big Pharma's War on Psychedelics
by Xaviant Haze
Adventures Unltd Press, USA, 2017
ISBN: 978-1939149862, (230 pp)
AdventuresUnlimitedPress.com

Underground author Xaviant Haze tackles the psychedelic underground and delves into the actions of the CIA and British Intelligence, with their mind control experiments and use of drugs such as LSD.

Haze explores the pioneers of psychedelia and the role of British Intelligence in spreading the use of LSD within the music industry.

He looks into the CIA and its use of LSD as a mind control drug; at one point every CIA officer had to take the drug and endure mind control tests and interrogations to see if the drug worked as a "truth serum".

Haze looks into other truth serum drugs at the disposal of intelligence agencies such as scopolamine and asks, "Why waterboarding?"

He looks at Big Pharma's war on psychedelics and the healing powers that these drugs have.

It's a tour de force in search of the liquid conspiracy that still trickles down the alleyways. This is your government on drugs.

A MANUAL FOR DEVELOPING HUMANS
by P. M. H. Atwater
Rainbow Ridge, USA, 2017
ISBN: 978-1937907471, (352 pp)
www.rainbowridgebooks.com
[Reviewed by Barry Eaton, RadioOutThere.com]

This manual is far more than just a guidebook to help people, it's the accumulation of what P.M.H. Atwater has learned in her 80 plus years of this lifetime. This includes having three near-death experiences in 1978 and writing 15 books on this and related subjects.

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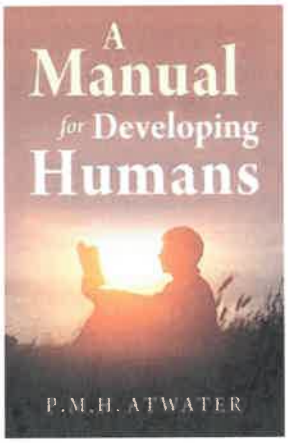
A Manual for Developing Humans is a book to be treasured as well as shared.



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Barry Eaton, author and radio presenter, describes the careful preparations he made for his journey to deal with and survive throat cancer, using his experience and understanding of the spirit world. Balancing holistic and spiritual methods with modern medicine, he found the means of coping as well as developing a deeper understanding of his life's purpose. Barry tells his story in his own inimitable style as a broadcaster, sprinkled with amusing anecdotes and recollections. Dealing with customary fears surrounding cancer, Barry's story unfolds with insights from his partner, Anne, and son, Matthew, as they support him through his emotional rollercoaster journey. *'Maybe my cancer could be explained medically, but what about the deeper meaning of what happened? What lessons has it brought, and what changes?'* – the author.

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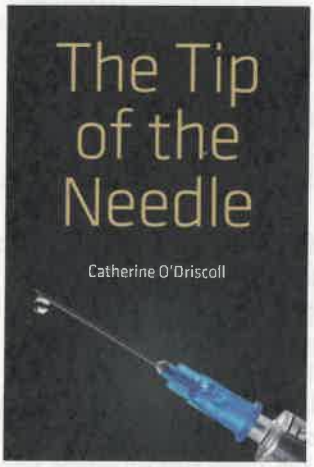
THE TIP OF THE NEEDLE
by Catherine O'Driscoll
Dogged Truth Publishing, 2018
ISBN: 978-0952304876, (485 pp)
www.catherineodriscoll.com



In 2010, Canine Health Concern (CHC), the organisation Catherine O'Driscoll formed in the early 90s, petitioned the UK's regulator of veterinary medicines, the VMD, to withdraw the licenses for one-year canine vaccines against distemper, parvovirus and canine viral hepatitis (also called adenovirus).

The VMD was asked to do this because it is now scientifically accepted that "once immune to viral disease, dogs remain immune for years and probably for life" (World Small Animal Veterinary Association). CHC and its supporters felt that, by withdrawing one-year vaccines, our dogs would no longer be over-vaccinated with vaccines they do not need, and subjected to unwanted vaccine reactions, some of which can be life-threatening. At the same time, hundreds of CHC members wrote to MPs to ask them to support this request. No MPs took this issue up, and the VMD refused to take one-year vaccines off the market.

The question O'Driscoll asks in *The Tip of the Needle* is, "Why?"

Why is it acceptable to give dogs, cats, horses (and children) vaccines they do not need, or which come with risks that potentially outweigh the diseases we are running from? Why is this not illegal?

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THE REAL EPIDEMIC: Preventing and Treating Allergies and Autoimmune Diseases in your Dog (and Yourself)
by Catherine O'Driscoll
Dogged Truth Publishing, 2018
ISBN: 978-0952304883, (380 pp)
www.catherineodriscoll.com

As O'Driscoll learnt to her dogs' detriment, it is up to us animal guardians to satisfy ourselves that what we do in the name of love is helpful, and not harmful.

Therefore we pet owners need to take responsibility for those in our care, and we need knowledge. In *The REAL Epidemic*, Catherine is inviting you to join the healthcare revolution and become a powerful animal owner, armed and equipped to protect your friends against the world.

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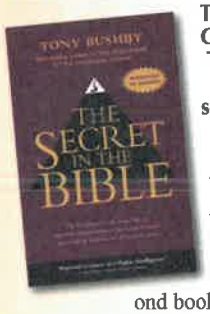

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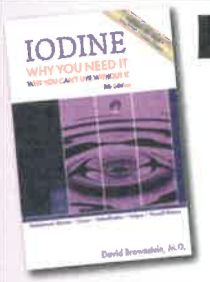

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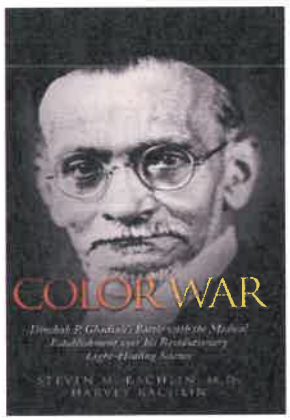
COLOR WAR: Dinshah P. Ghadiali's Battle with the Medical Establishment over His Revolutionary Light-Healing Science

By Steven M. Rachlin, MD and Harvey Rachlin
Amsterdam Publishers,
The Netherlands, 2018
ISBN: 978-9492371638, (276 pp)
http://www.colorwarbook.com



This is the compelling story of a Parsee Indian who fought the US medical establishment over his Spectro-Chrome Therapy (SCT) or colour light science.

In 1920 a Parsee Indian named Dinshah P. Ghadiali introduced to the world a new healing science that he spent decades meticulously researching. Based on coloured light therapy, hundreds of medical doctors, surgeons, dentists and other health professionals subsequently used it in their practices with astonishingly successful results, often on patients that conventional medicine could not help.

One general practitioner of some 30 years' experience gave unreserved credit to SCT for his successes with cancers, diabetes, gonorrhoea, syphilis, ulcers, neuritis, meningitis, heart conditions and many other disorders.

Because laypersons could be trained to use this healing science on themselves, Dinshah's therapy threatened the livelihood of health professionals. In time, the AMA and the medical establishment, drug industry and US government stepped in to stop him.

They branded him a quack, and relentlessly pursued him as Dinshah and followers of his healing science valiantly fought them off.

In 1947, in compliance with a Federal Court order, Dinshah had to "surrender for destruction" his unique library, research, and all printed material pertaining to coloured light therapies, to US marshals in Camden, New Jersey.

LIGHT THERAPIES: A Complete Guide to the Healing Power of Light

By Anadi Martel
Healing Arts Press, USA, 2018
ISBN: 978-1620557297, (384 pp)
https://www.innertraditions.com

With foreword by vision scientist Jacob Liberman, this is a comprehensive guide to the therapeutic benefits of light and colour and how they affect our physical and psychological health.

Covering the historic, scientific, and spiritual aspects of light and its role in energy medicine, Anadi Martel explores the vibrational nature of light and the interaction between light, biology, and consciousness.

He demonstrates light's incredible effects on the physical, energetic, and cognitive dimensions of life and examines several forms of light therapy, including chromotherapy (colour therapy), heliotherapy (sun therapy), actinotherapy (ultraviolet therapy), and thermotherapy (infrared therapy).

He details how to use light therapy daily, get optimal benefits from sunlight, and avoid the health risks of artificial lighting such as compact fluorescents and LEDs.

The author examines scientific studies on how specific wavelengths of light influence our cells and DNA, brain function, sleep patterns, and emotional stability; speed the healing of wounds; and are effective in the treatment of disease, including arthritis, stroke, Alzheimer's, Parkinson's, and brain and nerve injuries.

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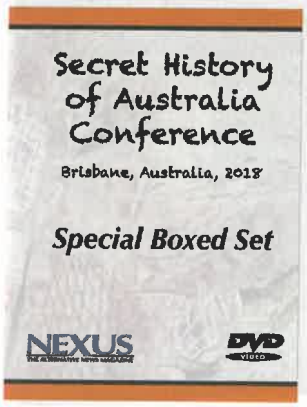
Australia is an ancient land, with plenty of mystery and unexplained phenomena. Thousands of years before any other civilisation came into being, Australia was inhabited by people who managed the ecosystem with an efficiency and harmony unmatched to this day.

It is suggested that this physical harmony with nature was a reflection of the greater understanding of our multidimensional reality, and the practical knowledge that can be derived from it.

The Secret History of Australia Conference was held in Brisbane, Australia, in June 2018. It was attended by people who came from all parts of Australia, including many Indigenous Australians who felt a calling to be there.

This reflects a growing awareness that the official Western narrative and history of this continent and its peoples is not only false and misleading, but that it has been deliberately falsified to hide the atrocities and illegality of occupation.



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FILM

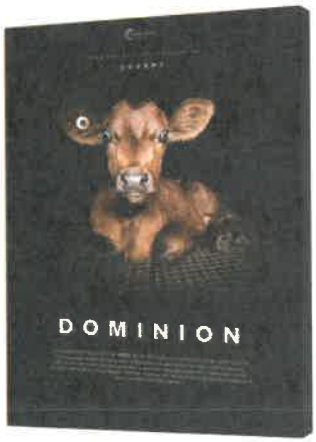
REVIEWED BY RICHARD GILES

DOMINION
Written, Directed and Edited by Chris Delforce
Produced by Chris Delforce, various organisations and via crowdfunding
The Lucent–Dominion Film Series
2018, (120 mins)
www.dominionmovement.com

This film focuses mostly on the Australian pig farming industry but has a much broader scope as a comprehensive account of the ways animals are used and abused in Australia. The makers employ hidden cameras and aerial drones to investigate the dark side of animal agriculture and explore the six primary facets of our interaction with animals: companion animals, wildlife, scientific research, entertainment, clothing and food. They then proceed to question the morality and validity of human "dominion" over the animal kingdom.

Drone footage of Aussie farms captures new perspectives, examining the wider context of animal exploitation within our society. Narrators include musician and vegan, Sia, actors Joaquin Phoenix, Rooney Mara and director Chris Delforce.

A large portion of the public in Australia and the USA are unaware of many animal farming practices. They don't know, for example, that cows need to give birth in order to produce milk, and that their male calves are sent to the slaughterhouse at just a few days of age. Or that male chicks in the egg industry are



minced alive or gassed on their first day of life. They probably don't even consider what "free range" or "organic" animals experience at the abattoir alongside their factory-farmed counterparts.

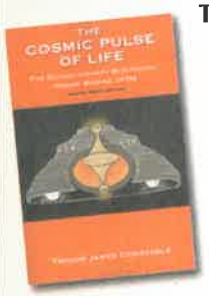
"The most important thing I want viewers to realise", says Chris Delforce, "is that these are individual, sentient beings—they think, they feel, they hurt, they suffer. The pigs dying horrifically in gas chambers are no different to the dogs and cats we keep as our loved companions. They don't want to die and it is within every viewer's power to make it stop... unlike other prevalent social justice issues we're not trying to persuade a backwards government to do the right thing—it's entirely up to us as consumers and it's our responsibility."

This film really touches your heart and soul, and afterwards Delforce guarantees your life will not be the same again.

Dominion is about levelling the playing field by showing consumers of animal products what they're actually paying for, giving them the chance to make informed decisions and hopefully encouraging a more compassionate and critically thinking society where misleading advertising is no longer taken at face value.

An exceptional insight into the animal food industry, this is a gripping and sometimes shocking documentary that may turn your guts at times.

THE COSMIC PULSE OF LIFE



The revolutionary biological power behind UFOs *by Trevor James Constable*

In 1958 Constable first advanced the shocking theory that UFOs are mainly invisible. He also held that our atmosphere is home to huge, invisible living creatures, and that these were confused with spacecraft when they became visible. He photographed both types of UFOs with infrared film. A quarter of a century later, teams of engineers and technicians in both Italy and Romania, unaware of Constable's earlier work, obtained virtually identical infrared photos of UFOs which were published in Italy. Later still, NASA used ultraviolet-sensitive videotape to record swarms of invisible UFOs. Convinced that UFOs represent a biological revolution for mankind, Constable began investigating etheric force, starting with the orgone energy discovery of Wilhelm Reich, MD...

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MUSIC

REVIEWED BY RICHARD GILES

BATTLE OF KINGS
by Saor Patrol
ARC Music International, UK,
2018, (61 mins)
www.arcmusic.co.uk
www.saorpatrol.com

Scottish group Saor Patrol (pronounced *shore*) delivers a medieval rock album based on the the fight for Scottish independence and the legend of Robert the Bruce. Most members of Saor Patrol are experts in medieval Scottish fighting techniques, and the band has put their hearts and hands together to record this defiantly Scottish CD with bagpipes, three sets of drums and guitar. King Robert the Bruce died a Scottish hero in 1329 after defeating the British. This CD is a heartfelt epic to him, both mournful and bittersweet.

KOUM TARA: CHAÂBI, JAZZ AND STRINGS
by Karim Maurice
Odradek Records, USA
2017, (60 mins)
www.odradek-records.com

An album of Algerian chaâbi music coming from the popular music of the Maghreb and Machrek (North Africa). Karim Maurice, Sid Ahmed Belksier, Kamal Mazouni and Brice Berrerd together create a fusion with European classical strings, contemporary and jazz improvisations by collaborating with French string quartet, La Camerata, led by Gaël Rassaert. In North African culture, music and poetry tend to combine through melodious love songs. This world fusion encompasses four musical worlds and sings the language of universal love.

THE BLUEBIRD, THE MYSTIC AND THE FOOL
by Joseph Tawadros
2018, (77 mins)
The Planet Company,
www.theplanetcompany.com
www.josephtawadros.com

Joseph Tawadros is a multi-award winning player of the Middle Eastern *oud*. He was born in Cairo, grew up in Sydney and is now based in London. He brings Middle Eastern music and contemporary jazz together. This fourteenth album features Tawadros with four top musicians: pianist Matt McMahon, clarinettist Dimitri Vouros, bassist Karl Dunnicliff and Tawadros' younger brother, James on Egyptian *req* and *bendir*. On stage Joseph Tawadros is an articulate storyteller with a dry humour. A glorious set of compositions.

QUEENS OF FADO: THE NEXT GENERATION
by Various Artists
ARC Music International, UK,
2017, (58 mins)
www.arcmusic.co.uk

The classic Fado works of Amália Rodrigues have been featured in previous ARC discs. Fado is a form of Portuguese song following a traditional structure; a music with melancholic tunes and lyrics, often about the life of the poor. In the 1950s, a new movement led Fado singers to adopt folklore and they began interpreting lines of the great Portuguese poets as a form of resistance to the then dictatorship. The disc features Yolanda Soares, Gisela João, Claudia Aurora, Carla Pires, Raquel Tavares and others.

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Rediscovering the Art and Science of Sound Therapy Continued from page 27

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Magic Mushrooms Continued from page 34

This sensation also includes a realisation that what you're experiencing at that time isn't a delusion of any kind, but instinctively feels like a primal truth.

The struggles of everyday life and this new dark age we're all living in have such a detrimental effect on our collective wellbeing, but I honestly believe the mushrooms really have the power to balance this out and give new perspective to an otherwise hectic and chaotic existence.

About the Author:

Marco has been a passionate cannabis enthusiast ever since his late teens, and usually writes about 420 culture, health and weed basics. You can find him discussing various conspiracy theories with his peers at GreenCamp.com. The original article is available at https://greencamp.com/magic-mushrooms

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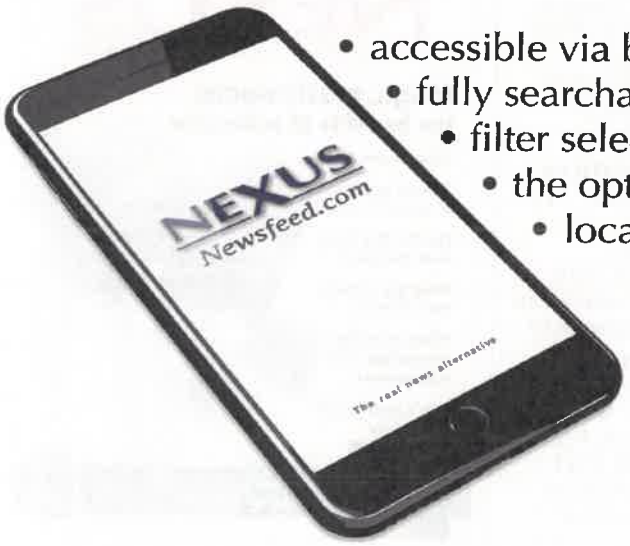

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The end of the Mayan calendar and the countdown to Judgment Day
by David Montaigne

Biblical researcher and historian David Montaigne presents fascinating evidence that the end of the Mayan Long Count is the official start of the Bible's seven-year Tribulation—both were focused on the same astronomical events that occur from 2012 to 2019. Texts from ancient India tell us about great cycles of destruction. The Egyptians told the same basic story with different names. The Maya reveal another version of the story and were very clear about the timing of events from December 2012 to 2019. Religious leaders guide us between the raindrops of curious comments in the Bible and discourage us from focusing on the parts they say we weren't meant to understand; but if we stop glossing over these important passages we will understand a flood of details about the End Times.

346 pages, pb • Code **ET**
£20.50 UK, £22.50 everywhere else

THE GREAT PYRAMID OF GIZA
A modern view on ancient knowledge *by Willem Witteveen*

The Great Pyramid is not only the best known but also the most enigmatic single structure on our planet. It has been studied, measured and illustrated for more than 200 years—it is instantly recognisable. Yet no one can say with any certainty why it exists. In this beautifully produced book Willem Witteveen introduces many unpublished original reports to demonstrate just how important The Great Pyramid is to our understanding of the modern world. By including the work of Tesla, Schauberger and Rife, amongst many others, Willem successfully widens the context in which we can now view this spectacular icon. Its purpose was more powerful than has previously been imagined. Its creation was not just more dramatic but far stranger than we have considered. It is thanks to Willem's dedicated work that the ancient knowledge contained in The Great Pyramid now enters the modern world.

392 pages, hb • Code **GPG**
£30 UK, £37.50 everywhere else

CONSPIRACIES

BIG BROTHER TECHNOLOGY
PRISM, XKeyscore, and other spy tools of the global surveillance state
by Axel Balthazar

The government can hack into any computer or smartphone on the planet. What sounded like crazy conspiracy theory was exposed as truth with the 2013 NSA leaks from Edward Snowden. Since then the deluge of CIA and NSA hacking programs filling the sky like rain hasn't stopped. This is an exposé of the software and techniques used by the agencies to spy on the world. Dozens of previously classified government surveillance programs are documented in this alarming book. Topics include: Edward Snowden; Mass Surveillance; Five Eyes; MYSTIC; DISHFIRE; Magic Lantern; ECHELON; Fairview; WikiLeaks; Vault 7; Julian Assange; Hacktivism; Encryption; Menwith Hill; ICREACH; Ransomware; Wannacry; The Shadow Brokers; and more...

264 pages, pb • Code **BBT**
£15.50 UK, £17 everywhere else

CONSPIRACIES
The facts • The theories • The evidence *by Andy Thomas*

The Moon Landings; JFK; Watergate; The Gunpowder Plot; 9/11; The New World Order... Since the political intrigues of the Roman Empire, nearly every significant event of the last 2,000 years has sparked off a conspiracy theory. Author of *The Truth Agenda* (see below) Andy Thomas sifts through the evidence of more than 30 major conspiracies and sets them against the social and psychological factors that have prompted them to spread. Thematically arranged, the accounts are stripped of unfounded opinion and presented factually but accessibly, dramatically highlighting the core issues. After establishing the fundamentals of conspiracy thinking, Andy goes on to explore an often missing element: the evidence itself. Nearly always, there is more to things than may at first meet the eye.

292 pages, pb • Code **CON**
£14 UK, £15 everywhere else

DARK MISSION
The secret history of NASA
by Richard C. Hoagland & Mike Bara

Few people are aware that NASA was formed as a U.S. national defense agency adjunct empowered to keep information classified and secret from the public at large. Even fewer people are aware of the hard evidence that secret brotherhoods quietly dominate NASA, with policies far more aligned with ancient religious and occult mystery schools than the facade of rational science the government agency has successfully promoted to the world for almost fifty years. Former NASA consultant and CBS News advisor Richard C. Hoagland and Boeing engineer Mike Bara document these seemingly wild assertions.

616 pages, pb • Code **DMISS**
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DARK MOON
Apollo and the whistle-blowers
by Mary Bennett & David S. Percy

Were the Apollo moon landings the greatest sting in history? Why did the Soviets not blow the whistle? An exhaustively researched book documenting: the photographs with added lighting, the lethal radiation of space which seems to have no effect on man or machine, and the discrepancies between the stills and the film images. Tracing the history of space exploration the common factor linking both 'sides' seems to be the presence, after WWII, of NAZI rocket scientists in the USA and the USSR. After reading the compelling evidence presented here you may think NASA have many questions to answer. You would be right. At the very least we have been misled; at worst...

572 pages, pb • Code **DM**
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HAARP
The ultimate weapon of the conspiracy *by Jerry E. Smith*

The HAARP project in Alaska is one of the most controversial projects ever undertaken by the US government. This futuristic technology is everything from super-beam weapon to world-wide mind control device. HAARP has many possible scientific and military applications, from raising a planetary defense shield to peering deep into the Earth, not to mention altering Earth's atmospheric, ionospheric and/or magnetospheric regions. Jerry Smith gives us the history of the HAARP project, exposing the web of conspiracies behind it, and leads the reader down a trail of solid evidence into ever deeper and scarier conspiracy theories. By the end of the book Smith convinces the reader that HAARP represents the ultimate in science out of control.

256 pages, pb • Code **HUW**
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HIDDEN AGENDA
NASA and the secret space program
by Mike Bara

Space expert Mike Bara looks at the secret space program of the US military that has been going on for over 60 years. The book asks and answers many questions. Was Wernher von Braun involved in the Roswell crash investigation? Why did he suddenly become fascinated with highly advanced theoretical physics propulsion systems during the Apollo years, and why did all of this public research suddenly 'go black' in the early 1960s? Did NASA and the Pentagon know and expect to find evidence of alien bases on the Moon? Did the Apollo 12 astronauts deliberately damage the TV cameras in order to hide their explorations of one of these bases? Does hacker Gary Mackinnon's discovery of defense department documents identifying 'non-terrestrial officers' serving in space mean that the US has secret space platforms designed to fight a war with an alien race? And much more...

192 pages, pb • Code **HA**
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REDUCED TO CLEAR

INSIDE THE GEMSTONE FILE
Howard Hughes, Onassis & JFK
by Kenn Thomas & David Hatcher Childress

The *Gemstone File* consists of hundreds of letters, handwritten in many segments over a number of years by Bruce Roberts, the creator of synthetic rubies. These letters, sent with accompanying synthetic rubies, were addressed to important people around the world. According to the *Gemstone File* Hughes Aircraft stole Roberts' rubies in 1960 for use in laser weapons research. Roberts' subsequent investigation of the theft inspired him to write the letters tracking the secret history of the international mob and industrial espionage, and their role in political intrigue. Copies of these letters ultimately made it to Mae Brussell in Carmel, California, who commissioned a chronological outline of the most important points. In 1975 this 24-page summary known as *The Skeleton Key to the Gemstone File* began to circulate and has now become a legendary classic of conspiracy literature. *The Skeleton Key* is reproduced here together with an actual Bruce Roberts letter, as well as the *Kiwi Gemstone File* and a wealth of essays and commentary by internationally noted conspiracy researchers.

250 pages, pb • Code **IGF**
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THE SECRET SPACE AGE
Secret space programs, breakaway civilizations, Nazi UFOs, SDI and Alternative Three *by Olav Phillips*

In 1977 in the quiet English countryside a film was aired. It was so shocking that for more than 30 years it has been discussed and analysed: what if *Alternative Three* is in fact real? Is it the blueprint for surviving the end of the world? How does it connect to the Secret Space Program, Nazi UFOs, SDI and even Chemtrails? Are there bases on the Moon? For the first time shocking details about the Secret Space Program and *Alternative Three* are exposed, and the connections between some of the greatest conspiracies of all time and a secret government program to move to Mars to survive the coming apocalypse, are explored.

190 pages, pb • Code **SSA**
£19 UK, £20.50 everywhere else

SPYHUNTER
The secret history of German intelligence *by Michael Shrimpton*

Written as a work of fact, this is one of the most intriguing books you will ever read. Based upon his knowledge, extensive sources and in-depth investigations of historical records, Shrimpton presents a fascinating alternative look at the history of espionage from the 11th century to the present day. The author is a renowned barrister and intelligence specialist with deep sources in the Pentagon, CIA and elsewhere, and was a consultant for the TV series *Spooks*. From Chairman Mao's excesses to the methods his successors use to target prominent individuals who shape political and financial opinions in Europe and elsewhere, nothing escapes *Spyhunter*. Whether Shrimpton is factually correct or not is for the reader to decide; he is content to let history be his judge.

711 pages, pb • Code **SPY**
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THE THIRD WAY
The Nazi International, European Union, and corporate fascism
by Joseph P. Farrell

Pursuing his investigations of high financial fraud, international banking, hidden systems of finance, black budgets and breakaway civilizations, author and researcher Joseph P. Farrell continues his examination of the post-war Nazi International: an 'extra-territorial state' without borders or capitals; a network of terrorists, drug runners, and people in the very heights of financial power willing to commit skullduggery in amounts

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totalling trillions of dollars. Secret technology, occult rituals, international terrorism, giant corporate cartels, patent law and the hijacking of nature: it's all in this book where Farrell explores what he calls 'the business model' of the post-war Axis elite.
356 pages, pb • Code **TTW**
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SIGNED

THE TRUTH AGENDA
Making sense of unexplained mysteries, global cover-ups & visions for a new era *by Andy Thomas*
• ***Expanded & updated 3rd edition***
The Truth Agenda explores some of the most famous unexplained mysteries and global cover-ups of recent history. What is the truth about UFOs, pyramids, psychic phenomena, visions of the future and ancient prophecies? What is their connection to famous conspiracy theories concerning the Moon landings, 9/11, the New World Order and claims that the world is covertly run by a powerful ruling elite? Leading mysteries researcher Andy Thomas pulls these many threads together in a refreshingly accessible and stimulating overview, addressing the issues in a credible analysis which suggests the world we live in may be very different to the manipulated picture presented by governments and the mainstream media.
400 pages, pb • Code **TA**
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THEY LIED TO US IN SUNDAY SCHOOL
by Ian Ross Vayro
The churches have never really answered the big question of their genesis and faith. Despite a myriad of new cults and religions the complete understanding of our Godhead has advanced little in the past 200 years. Almost without exception these ever-increasing groups ask us to accept their teachings. "Have faith" we are told. But faith in what? *They Lied to us in Sunday School* takes us on a whirlwind ride through ancient biblical texts and leads one to question all that was taught, and is still being taught, from the pulpits of churches every day. Recent fiction and non-fiction books have added to the debate but none does so in the way that Ian Ross Vayro's book does. Well written, well researched, often humorous—it is very difficult to question the conclusions reached.
428 pages, pb • Code **TLSS**
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CROP CIRCLES

CROP CIRCLES LIGHTS & ORBS
Excursions into the other realities of thin places *by Gareth J. Owen*
Much of the discord over crop circles, strange lights, and orbs, is that if even some of them are real then our mainstream world view is rendered rather less than adequate. Braving the rain, wind and cold of British summers, the author endured endless nights of great discomfort in the muddy fields of Wiltshire to find out what was going on—which turned out to be much stranger than anything he had imagined. In the fields near the ancient stone circle of Avebury; on the billion-year-old rocks on the island of Iona; and in front of the abbey at Tintern in the early morning rain; it became increasingly clear that we have lost our connection to a reality which has always been right under our noses...
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CLASSIC CROP CIRCLES 2019 CALENDAR *by Lucy Pringle*
This A4 calendar (opens to A3) contains the major crop circles of 2018 plus a selection of side images, graphics and monthly quotations. Date boxes are large enough to make notes and appointments. High quality gloss with ring binding. Includes the Martinsell Hill formation. Lucy has been producing these wonderful calendars since 2000 and they continue to make the perfect gift for friends and loved ones.
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NEW•NEW•NEW•NEW

CROP CIRCLE YEAR BOOK 2017
A pictorial tour of crop circles and their landscapes *by Steve & Karen Alexander*
This is the nineteenth in a series of year books by Steve Alexander (photographer) and Karen Alexander (writer) portraying the beautiful and mysterious crop circle phenomenon within the UK. It combines stunning photography—including many full page landscape views—with incisive commentary text; it is full-colour, satin finish, fine-art-reproduction throughout. These are the only annually published books on the subject and provide an invaluable window into the fields of southern England.
44 pages, A4 pb • Code **CCYB17**
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FUTURE SCIENCE

THE ANTI-GRAVITY FILES
A compilation of patents and reports *Edited by David Hatcher Childress*
With plenty of technical drawings and explanations, this is an all-new compilation of material on anti-gravity, free energy, flying saucers and Tesla technology, from Adventures Unlimited Press. Chapters include: A Brief History of Anti-Gravity Patents; The Motionless Electromagnetic Generator Patents; Anti-Gravity Propulsion Dynamics; The Machines in Flight; Death Rays Anyone?; The Tesla Pyramid Engine; Mercury Gyros, Foo Fighters and Quantum Vacuum Thrusters; and much more. An astounding collection of information!
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The rediscovery of aether • Based on the life of Viktor Schauberger *by Reinout Guépin*
This is the incredible yet true story of Viktor Schauberger, an Austrian forest ranger, who discovered a free energy source in the 1920s by quietly observing water in its natural environment. He briefly acquired world fame through his revolutionary inventions but suffered slander from envious scientists and the attempted theft of his patents by greedy industrialists. Forced by the Americans after the Second World War to build the world's most powerful hydrogen bomb using his technology, he wisely kept the final secrets to himself. Fortunately, however, his legacy contains enough clear pointers that a morally mature humanity of the future could safely develop this sustainable, natural 'implosion technology'. A must-read for anyone interested in free energy and a serious eye-opener for those who believe modern science to be on the right track.
415 pages, pb • Code **EYE**
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WATER
The key to new energy • Cavitating electrolyzers & zero-point energy *by Moray B. King*
Cars and generators that seem to run on water? Sounds impossible, yet inventors exploring water electrolyzers, Brown's gas, HHO and hydroxy sometimes stumble across a huge energetic phenomena which they unwittingly attribute to hydrogen. After ten years of research this book discloses a surprising new explanation: In an engine's combustion chamber water nanobubbles or fog particles convert to microscopic ball lightning when subjected to a wide plasma, abrupt electric discharge. For a few milliseconds thousands of tiny plasmoids manifest a huge anomalous force on the piston. The behaviour mimics a thunderclap. Moray B. King has degrees in Electrical Engineering and System Engineering. Since 1975 he has been researching zero-point energy in the physics literature, exploring how it might become an energy source via technology.
275 pages, pb • Code **WAT**
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HEALTH

A CAT IN HELL'S CHANCE
Written by the campaigners; Edited by Anny Malle
Written almost entirely from contributions by campaigners, this book tells the story of a crusade started by a political novice which gathered momentum over ten years, became a mass movement, and after battles with Oxfordshire police, many arrests, court appearances and jailings, finally shut down Hill Grove cat farm. It also traces the development and the coming to consciousness of a retired Queens Nursing Sister who cast off her more respectable life to commit herself utterly to the cause of anti-vivisection. Cynthia O'Neill was tried and arrested on a number of occasions and spent frequent periods in police custody. Published in 2002, *A Cat in Hell's Chance* gives us all hope that even the most difficult battles, if they are approached with determination and resolve, can be won. It provides a detailed map of the journey which is ultimately necessary for those who want to counter injustice and make radical changes.
219 pages, pb • Code **CAT**
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CORPORATE TIES THAT BIND
An examination of corporate manipulation and vested interest in public health *Edited by Martin J. Walker*
A collection of essays written by influential academic scholars, activists, and epidemiologists from around the world who scrutinise the corporate reasoning, false science, and trickery of those who present the scientific messages of organisations that attack and censure independent voices. It shows how we are bombarded with opposing messages, as producers fight to make big profits and those concerned with health try to warn society of impending toxic dangers. This book addresses how the growth of corporatism is destroying liberal democracy and personal choice. There is a battle taking place between profitability and public health, and this book provides a detailed and scholarly intervention.
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DIRTY MEDICINE
The handbook *by Martin J. Walker*
This is Martin Walker's 20 year follow-up to his book *Dirty Medicine: Science, big business and the assault on natural health care.* In this new book Walker gives a full and detailed picture of the vested interests, their personalities, organisations and ideas that have shaped the present attack on alternatives in the field of health. Alternative and complementary medicine is under attack on all fronts; this book gives us the knowledge with which to defend ourselves and fight back.
318 pages, pb • Code **DMED**
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DISSOLVING ILLUSIONS
Disease, vaccines, and the forgotten history *by Suzanne Humphries, MD & Roman Bystrianyk*
Not too long ago lethal infections were feared in the Western world. Since then

many countries have undergone a transformation from disease cesspools to much safer, healthier habitats. From the mid-1800s there was a steady drop in deaths from all infectious diseases, decreasing to relatively minor levels by the early 1900s. The history of that transformation involves famine, poverty, filth, lost cures, eugenicist doctrine, individual freedoms versus state might, protests and arrests over vaccine refusal, and much more. Today we are told that medical interventions increased our lifespan and single-handedly prevented masses of deaths. But is this really true? Using myth-shattering graphs and detailing facts and figures from long-overlooked medical journals, books, newspapers and other sources, this book shows that vaccines, antibiotics and other medical interventions are not responsible for the increase in lifespan and the decline in mortality from infectious diseases. Published in July 2013 after many years of research and work, *Dissolving Illusions* is a well-referenced labour of love.

504 pages, pb • Code **DI**
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BACK IN STOCK

FATHER EARTH
by Olof Smit

In 1992 Olof Smit was approached by a group of healers and invited to become an intermediary between traditional African medicine and western allopathic medicine. He estimated that this research might take a couple of months, but ended up spending the next 12 years in the rainforest on this African cultural experience. He was astounded by the infinite possibilities of the 'green things' in the forest. He soon learned that these 'things' that the western world simply refers to as trees and plants were in reality a medicine chest of cure for physical, emotional, mental and spiritual illnesses.

243 pages, pb • Code **FAE**
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GARDASIL
Fast-tracked and flawed
by Helen Lobato

Documents the early history of cervical cancer and tracks its progression from a disease of obscurity to one of mainstream prominence. It includes the stories of vaccinated girls and boys who remain ill after receiving a vaccine purported to prevent a disease they were most unlikely to get. It records the voices of dissenters and resisters who call for an inquiry into HPV vaccines approved for use after a relentless propaganda campaign promoting a vaccine against a virus that many had never heard of. This in-depth investigation exposes cracks in the pharmaceutical industry and highlights the problems that arise when government regulators and corporate interests are prioritised ahead of patient safety, independent science and common sense.

138 pages, pb • Code **GARD**
£13 UK, £14 everywhere else

IN THE DARK
New ways to avoid the harmful effects of living in a technologically connected world
by Jason Bawden-Smith

Environmental scientist and entrepreneur Jason Bawden-Smith woke up to the dangers of particular electromagnetic frequencies a few years ago when he realised that they were playing a major part in his own health woes. After studying the research of top EMF scientists he healed himself and went on to write this book. In it he details how we're being 'electri-fried' by EMF waves from Wi-Fi, mobile and cordless phones, smart meters, microwave ovens and other devices and technologies. These waves cause breaks in our DNA and open voltage-gated calcium channels, resulting in oxidative stress and inflammation. *In The Dark* brings stronger awareness to the adverse effects technology can have, and offers simple and practical measures people can take without feeling they have to compromise the lifestyle they want.

187 pages, pb • Code **ITD**
£18.50 UK, £20 everywhere else

HRT • Licensed to kill and maim
by Martin J. Walker

Published in 2006, this book revolves around the story of one woman, Maggie Tuttle, who suffered immensely from hormone medication but who, being a campaigner, initiated a patient self-help group she called the Menopausal Helpline. Over ten years she had over ten thousand contacts from women who suffered similarly. She attempted to work with pharmaceutical manufacturers and medical societies to bring about changes but her communications were blocked at every turn, her group denied all support, and eventually as the effort became too great the helpline folded. Other groups that agreed to listen to the hormone 'experts' and accept money from pharmaceutical manufacturers fared much better. 'Disease mongering' is a term for the promotion of quite normal life conditions as somehow in need of pharmaceutical intervention. As with so much else these days it seems, all the problems with HRT (Hormone Replacement Therapy) are created in the space between scientific theory and human practice. The claims of manufacturers, distributors, marketing men and physicians for HRT, in thousands of instances, take no account of the reality of doctor-patient relationships, medical practice and the non-conforming diversity of women's physical and psychological make-up.

367 pages, pb • Code **HRT**
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IODINE
Why you need it • Why you can't live without it
by David Brownstein, M.D.
• 5th edition, 3 new chapters

Learn what forms of iodine you need and why there is not enough iodine in salt. See how iodine can help: breast cancer, fibrocystic breast disease, detoxification, fatigue, Graves' Disease and Hashimoto's Disease. Find out why iodine deficiency may be the root cause of thyroid problems including hypothyroidism and thyroid cancer. Discover how to get iodine from your diet and improve your immune system. *'Iodine is the most misunderstood nutrient. After 12 years of practicing medicine I can say that it is impossible to achieve your optimal health if you do not have adequate iodine levels. I have yet to see any item that is more important to promoting health or optimizing the function of the immune system than iodine.'* – the author. Each chapter in this 5th edition has been updated, plus there is new material on: children and iodine deficiency, autism, ADHD, what iodine does in the body, and more.

306 pages, pb • Code **IOD**
£24 UK, £26 everywhere else

THE JOY OF LIVING
Postponing the afterlife
by Barry Eaton and Anne Morjanoff

A story that touches the soul and gives us heart-warming, fascinating and deep insights on the hard road from diagnosis to treatment and eventual survival from throat cancer. Barry Eaton, author and radio presenter, describes the careful preparations he made for his journey, using his experience and understanding of the spirit world to deal with and survive the ordeal. Balancing holistic and spiritual methods with modern medicine, he found the means of coping as well as developing a deeper understanding of his life's purpose. Barry tells his story in his own inimitable style as a broadcaster, sprinkled with amusing anecdotes and recollections. Dealing with customary fears surrounding cancer, Barry's story unfolds with insights from his partner, Anne, and son, Matthew, as they support him through his emotional rollercoaster journey.

219 pages, pb • Code **JOY**
£15.50 UK, £17 everywhere else

LIGHT THAT HEALS
Energy medicine today & beyond
by Donna Fisher

In the first section 'light that harms' Fisher gives advice on how to measure, limit exposure to, and filter out EM fields and implement 'electromagnetic hygiene' steps for better health. In the second part she focuses on 'light that heals' explaining that EM energy at the right frequencies can have powerful healing effects. She restates and updates information about EMFs including 'dirty electricity' and their links with many illnesses, and goes on to assess a range of techniques utilising EMFs such as the PowerTube, radiowave therapy, oncothermia and the minimally invasive NanoKnife which can treat difficult-to-reach tumours. She considers light treatments such as photobiomodulation, quantum therapy and photodynamics, and therapies utilising colours and crystals. This combination of ground-breaking new technologies with the many conditions they treat is a drug free encyclopedia to assist in achieving and maintaining vitality and health in our EMF-soaked world.

245 pages, pb • Code **LTH**
£15 UK, £16.50 everywhere else

THE MAGNESIUM MIRACLE
Discover the missing link to total health *by Carolyn Dean, M.D., N.D.*
• Second edition

Magnesium is an essential nutrient, indispensable to your health and well-being. Despite helping to alleviate such threats as heart disease, stroke, osteoporosis, diabetes, depression, arthritis and asthma, many of us remain dangerously deficient. Updated and revised throughout with 30 per cent new material, this amazing guide explains the vital role that magnesium plays in your body and life. Inside you will discover: improved methods for increasing magnesium intake and absorption; how calcium can increase the risk of heart disease—and how magnesium can lower it; a magnesium-rich eating plan as delicious as it is healthy; information on the link between magnesium and obesity; vitamins and minerals that work with magnesium to treat specific ailments; why paleo, raw food and green juice diets can lead to magnesium deficiency. The ultimate guide to this miraculous mineral.

553 pages, pb • Code **TMM**
£19 UK, £20 everywhere else

MEDICAL MEDIUM
Secrets behind chronic and mystery illness and how to finally heal
by Anthony William

Anthony William has helped tens of thousands of people heal from ailments that have been misdiagnosed or ineffectively treated, or that doctors can't resolve. He's done this by listening to a divine voice that literally speaks into his ear, telling him what lies at the root of people's pain or illness and what they need to do to restore their health. His methods achieve spectacular results, even for those who have spent many years and much money on all forms of medicine before turning to him. Now, in this extraordinary book, he opens the door to all he has learned in over 25 years of bringing people's lives back: a huge amount of healing information, much of which science won't discover for decades, and most of which has never appeared anywhere before.

365 pages, pb • Code **MED**
£15 UK, £17 everywhere else

MEDICAL MEDIUM LIFE-CHANGING FOODS
Save yourself and the ones you love with the hidden healing powers of fruits & vegetables
by Anthony William

Book 2 of the *Medical Medium* series. Unleash the hidden powers of fruits and vegetables and transform your life in the process. Much of Anthony's information is dramatically different from the conventional wisdom offered by medical communities, so don't expect to hear the same old food facts rehashed here. A few highlights: Critical information about the specific factors behind the rise of illness and how to protect yourself and your family; Foods to repair your DNA, boost your immune system, improve your mental clarity, alkalize every body system and shield you from others' negative emotions; Techniques to make fruits, vegetables, herbs, spices, and wild foods the most healing they can be for your individual needs; Targeted foods to bring into your life for relief from hundreds of symptoms and conditions.

325 pages, hb • Code **LCF**
£24 UK, £29 everywhere else

MEDICAL MEDIUM THYROID HEALING

The truth behind Hashimoto's, Graves', insomnia, hypothyroidism, thyroid nodules & Epstein-Barr
by Anthony William

More and more people are hearing that their thyroids are to blame for their fatigue, weight gain, brain fog, memory issues, aches and pains, insomnia, hair loss, and more. As the thyroid has gotten more attention, though, these symptoms haven't gone away. Labeling someone with 'Hashimoto's', 'hypothyroidism', or the like doesn't explain the myriad health issues that person may experience. There's a pivotal truth that goes unnoticed: A thyroid problem is not the ultimate reason for a person's illness; it is yet one more symptom of something much larger. In Book 3 of the *Medical Medium* series, Anthony William reveals an entirely new take on the epidemic of thyroid illness. He explains in detail what the source problem really is, including what's going on with inflammation and autoimmune disease, then offers a life-changing toolkit to rescue the thyroid and empower readers back to health and vitality.

279 pages, hb • Code **THY**
£23.50 UK, £28 everywhere else

OVERTHROWING THE TEMPLE
Loïc Le Ribault and his development of organic silica *by Martin J. Walker*

At university in Paris, Loïc Le Ribault became interested in sand. With the aid of a scanning electron microscope he found unique flora and striations on every grain, and in this manner he developed the new science of exoscopy. Finishing university he set up his own laboratory and in a short time his work became recognised by the French police as a seminal aid in pinpointing perpetrators of violent crime. Wary of Loïc's independence, the French Ministry of the Interior misappropriated his forensic inventions and began training the police themselves. Loïc was forced to close his lab and began a lifelong project to develop the health giving aspects of silica. This search for the ultimate synthesis of organic silica to treat arthritis and skin complaints saw him twice imprisoned. He died in 2007 in unresolved circumstances. Martin Walker got to know Loïc when he was in exile, on the run from anonymous authorities.

Overthrowing the Temple reads part thriller, part the story of a dissenting scientist, and part Grimm's fairy tale.

176 pages, pb • Code **OT**
£11 UK, £12.50 everywhere else

RAISING A VACCINE FREE CHILD
by Wendy Lydall
• ***Fully referenced***

Vaccination is presented to parents as a safe, scientific procedure, which no responsible parent would query. But an increasing number of parents are questioning the validity of this 200 year old ritual. The vaccine industry has responded to this skepticism by introducing coercive measures in many countries in order to achieve compliance. Since its inception in 1795 by Edward Jenner, vaccination has been an unscientific, commercially-based procedure, which is aligned with powerful pharmaceutical interests. At the same time, infectious diseases pose a significant threat to the health and well-being of children in all strata of society. Anti-vaccinationists make statements which contradict official pronouncements. Some activists make wild claims for alternative methods of disease prevention. How does a parent find a way through the maze of conflicting information? In this book Wendy Lydall presents a comprehensive, scientifically-based guide to the myths, facts, problems and solutions associated with raising a vaccine free child.

314 pages, pb • Code **RVFC**
£15 UK, £17.50 everywhere else

THE SEVEN DEADLY WHITES
Evolution to devolution: The rise of the diseases of civilization
by Karl Elliot-Gough

It is the author's firm belief that the ingredients of the food we eat today play a significant role in the increase in the diseases of civilization (cancer, heart disease, diabetes, depression, dementia, ADD and more). It is both the ingredients themselves and what is missing from these ingredients that is having a profound effect upon our health. *The Seven Deadly Whites* (sugar, milk, flour, fats/oils, salt, rice and lies) is a book that concerns everyone, so it has been written in as clear and un-jargoned a way as possible. Elliot-Gough urges us to face up to our brainwashing and addictions, challenge the status quo, and choose healthy options.

370 pages, pb • Code **SDW**
£19.50 UK, £22 everywhere else

SILENCED WITNESSES (VOLUME 1)
The parents' story • The denial of vaccine damage by government, corporations and the media
Written by the parents; Edited by Martin J. Walker

In July 2007 the General Medical Council, the regulatory body for doctors in Britain, began a 'trial' of Dr Andrew Wakefield, Professor John Walker-Smith and Professor Simon Murch. The three doctors were charged, each under some seventy headings, after having published the conclusion of research and clinical practice that suggested a link between the MMR vaccine, bowel disease and regressive autism in some children. The single complainant was a pro-MMR Sunday Times journalist. The GMC took almost four years to produce the evidence and the hearing itself lasted over two and a half years, making it one of the longest quasi-legal proceedings in British history. The parents of MMR vaccine damaged children—who all support the three doctors—were not allowed a voice in the GMC hearing because their complaint on behalf of their children is against the pharmaceutical companies, the New Labour government and the medical establishment. This book was written almost entirely by these parents and for the first time gave voice to the injustice done to them and their children.

208 pages, pb • Code **SW1**
£7.50 UK, £9 everywhere else

SILENCED WITNESSES VOLUME 2
The parents' story • The denial of vaccine damage by government, corporations and the media
Written by the parents; Edited by Martin J. Walker
• ***Comes with a free copy of Alan Golding's hour-long DVD* Selective Hearing: Brian Deer and the GMC**

Published near the end of the General Medical Council's two and a half year fitness-to-practise hearing against Dr Wakefield, Professor Murch and Professor Walker-Smith, this second volume's introductory material contains an objective view from outside the GMC, looking at the way most British journalists avoided the hearing. Martin J. Walker, who edited these volumes, attended almost every single day of the hearing. In this volume he adds to the introductory material by taking a relatively detailed look at the charges mounted by the GMC prosecution. The main bulk of the book, however, follows the first volume in having chapters written by the parents of vaccine damaged children, and once again gives voice to the injustice done to them and their children.

290 pages, pb • Code **SW2**
£9 UK, £11.50 everywhere else

SKEWED
Psychiatric hegemony and the manufacture of mental illness in multiple chemical sensitivity, Gulf War syndrome, myalgic encephalomyelitis and chronic fatigue syndrome
by Martin J. Walker

Published in 1993, *Skewed* arguably becomes more relevant with each passing year. The book traces chemical companies' arguments against their products causing illnesses and tracks the growth of the theory promoted by them that individuals who report symptoms of chemically induced ill health have personality disorders. The book asks how psychiatric theories of 'unexplained illness' have managed to gain ascendancy and shape the diagnosis, research funding and public perception of these illnesses in Britain.

286 pages, pb • Code **SK**
£7.50 UK, £8 everywhere else

SLAUGHTER OF THE INNOCENT
by Hans Ruesch

Hans Ruesch's three books – *Slaughter of the Innocent; Naked Empress; 1000 Doctors (and more) Against Vivisection* – published between 1978 and 1989, laid the foundations for the modern anti-vivisection movement, with its uncompromising demand for a complete end to vivisection and the fraudulent scientific arguments which underlie it. Published in 2003 this is the seventh, and only, edition of this book currently in print.

449 pages, pb • Code **SL**
£9 UK, £10.50 everywhere else

STATINS TOXIC SIDE EFFECTS
Evidence from 500 scientific papers
by David Evans

Data collected by the World Health Organisation from 192 countries shows that higher cholesterol levels are associated with a longer lifespan and a reduced risk of cardiovascular disease. Yet annual sales of cholesterol lowering drugs (statins) are in the tens of billions of dollars. So why do virtually all the medical profession and the media think it is a good decision to lower cholesterol levels with statins? And why are they wrong? This book provides answers. Using evidence from 500 scientific papers drawn from peer-reviewed scientific journals, David Evans shows that statins do not save lives but do have a plethora of toxic side effects. Who issues the guidelines for cholesterol lowering and statin use? A chapter is devoted to this subject. You will also discover that statin manufacturers pay for the trials that are used as evidence to increase the use of statin drugs. Thankfully not all in the medical profession are bedazzled by statins...

540 pages, pb • Code **STSE**
£19 UK, £22 everywhere else

HIDDEN HISTORY

THE BIBLE FRAUD
by Tony Bushby

After 12 years of full-time research Tony Bushby published this, his first book, in August 2001. These stocks are from that first printing and reveal Bushby's groundbreaking information about the birth and emergence of the Christian religion. In order to cover this ground it was necessary to consider the New Testament stories from a different perspective. By stripping away their supernatural elements, the earliest church writings relay a confused skeletal outline of the lives of two separate men. *The Bible Fraud* unravels those stories and shows how the New Testament came into being and what it really is. By coordinating new information with surviving records Bushby reconstructs the probable course of events that resulted in Christianity today. An exciting canvas of alternative history unfolds through these pages and it is recommended reading for anyone who is on the search for truth in history.

271 pages, pb • Code **BF**
£15 UK, £17 everywhere else

BLOODLINE OF THE HOLY GRAIL
The hidden lineage of Jesus revealed
by Laurence Gardner

Featuring the charm and adventure of Arthurian romance, coupled with enthralling Rosicrucian and Templar disclosures, this extraordinary work has a cutting edge of intrigue which removes the established blanket of enigma to expose one of the greatest conspiracies ever told. From royal and suppressed archives comes documented proof of the heritage of Jesus in the West and the long awaited discovery of the Holy Grail. In fulfilling this time-honoured quest, penetrating new light is cast upon the Grail Code of Service and the venerated feminine element, upheld in chivalry but forsaken by the Church in order to forge a male dominated society. Tracing the sacred lineage through centuries of persecution and Inquisition, *Bloodline of the Holy Grail* reveals a systematic suppression of authentic records and a strategic manipulation of the New Testament Gospels.

454 pages, pb • Code **BHG**
£9.50 UK, £12 everywhere else

CLEOPATRA TO CHRIST
Jesus was the great grandson of Cleopatra *by Ralph Ellis*
• ***Book 1 of 'The King Jesus Trilogy'***

Why was the birth of a poor 'carpenter' in the first century AD attended by the Persian Magi? Why was Jesus later known as the 'King of the Jews'? Using many strands of contemporary evidence, Ralph Ellis has pieced together a historical jigsaw puzzle demonstrating that the biblical Jesus was directly descended from Cleopatra VII, the most famous queen of Egypt. But this is not all, for when piecing this story together it would seem that Jesus also had an aristocratic Roman and royal Persian ancestry, and it is the latter bloodline element that explains the appearance of Persian Magi at his birth. Ralph Ellis has written nine other books which, when taken together, rewrite the entire history of Western theology and much of Western history.
201 pages, pb • Code **CTC**
£7.50 UK, £9 everywhere else

KING JESUS
Prince of Judaea and Rome
by Ralph Ellis
• ***Book 2 of 'The King Jesus Trilogy'***
The primary objective of this book was to confirm that St Paul (Saul) was actually Josephus Flavius. However, this novel identification exposed new perspectives on the life of Jesus, who was actually a real king of Judaea. Contrary to orthodox perceptions, King Jesus and Queen Mary Magdalene were the richest couple in Syrio-Judaea. The Romans wanted to impose taxes on Jesus and Mary, an imposition that provoked the Jewish Revolt. King Jesus fought and lost that war, and so he was crucified, reprieved and sent into exile in a Roman prison in England. This identification of Jesus as a wealthy, royal, warrior-hero of first century Judaea may sound bizarre but that is what the texts say. This is a secret history that has been deliberately concealed from us for two millennia.
617 pages, pb • Code **KJ**
£18 UK, £22 everywhere else

JESUS, KING OF EDESSA
Jesus was a king of northern Syria • The discovery of an original statue of Jesus *by Ralph Ellis*
• ***Book 3 of 'The King Jesus Trilogy'***
We now know (referring to Books 1 & 2) who Jesus was, where he lived, and who his family were. Visit his city, see the ruins of his citadel, gaze upon his statue, handle his coins. In reality Jesus was a son of King Abgarus of Edessa, a princeling with a small realm, a large treasury, and even bigger ambitions. But the wise prince of northern Syria came up against an intractable Rome and his many plans crumbled to dust. As readers might imagine, the true history of this region undermines much of the biblical fairy-story that the gospel authors crafted, and so Christianity will never be the same again.
595 pages, pb • Code **JKE**
£17.50 UK, £21.50 everywhere else

THE GRAIL CYPHER
The secrets of Arthurian history revealed *by Ralph Ellis*
• ***Book 4 of 'The King Jesus Trilogy'***
Are you willing to have your view of Arthurian, British and Christian history challenged? Are you ready to accept the esoteric mysteries and heresies of the Knights Templar? Once we understand that Jesus and Arthur shared a common history, the rest of Arthurian legend starts to fall into place. Join Ralph Ellis on an extraordinary tour of Arthurian history, much of which you did not even know existed. How can we comprehend the true history of King Arthur if we have not considered the entire corpus of this labyrinthine story? Yet if we bring the many diverse strands together and decipher their true meaning, they explain a great deal about the history of Europe, Britain and Christianity.
646 pages, pb • Code **TGC**
£18.50 UK, £22.50 everywhere else

FORBIDDEN ARCHEOLOGY
The hidden history of the human race
by Michael A. Cremo & Richard L. Thompson
In over 900 pages the authors present definitive evidence that the picture we have of mankind's origins is incomplete. Drawing on extensive research into overlooked evidence across five continents, Cremo & Thompson challenge us to rethink our understanding of human origins, identity and destiny.
910 pages, hb • Code **FA**
£37 UK, £43.50 everywhere else

GENISIS
The first book of revelations
by David Wood
The author long believed in the possibility of a geometric solution existing to the mystery of the valley of Rennes-le-Château and that it would pin-point the location of artifacts of religious significance in the area. *Genisis* demonstrates the proof of his conviction and the accuracy with which his findings have dovetailed into other researchers' work leaves little room for either to be questioned. The solution is a temple layout of gigantic proportions covering more than 40 square miles. Not only is its geometry an amazing extrapolation of the constructions and topographical features of the area but it is self-confirming in the numerical ciphers it exposes. Once the author was in possession of the secret numbers, they revealed connections hitherto only suspected—the secrets of the rituals and legends associated with such ancient enigmas as the Ark of the Covenant, the Temple of Solomon, the Round Table and the Arthurian Legends, The Rose Cross, the Ark of Noah, and other ancient mysteries.
309 pages, hb • Code **GENI**
£10.50 UK, £15 everywhere else

GENESET
The second book of revelations
by David Wood & Ian Campbell
Continuing the investigation into the mystery of Rennes-le-Château begun in *Genisis* and using computer analysis to confirm much of the earlier work, the authors here decipher the hidden messages contained within it and establish the mathematical genius of the original designers. You will find the evidence to prove that mankind could never have evolved in the available time span from an ape-like bipedal hominid to Homo sapiens with a massive brain. The so-called 'missing link' necessary to establish such a connection would of necessity be an immense chain of intermediary hominids whose presence would have saturated our paleoanthropological investigations with evidence of their existence. Scientific discoveries have confirmed that not only has our planet had a cataclysmic history but that if we dismiss the warnings of future catastrophes contained in the legends of the past we do so at our peril.
319 pages, hb • Code **GENE**
£15.50 UK, £20 everywhere else

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ORDER *'GENISIS'* AND *'GENESET'* TOGETHER AND RECEIVE *'POUSSIN'S SECRET'* FOR FREE • Code **GSET**
£26 UK, £35 everywhere else

POUSSIN'S SECRET
by David Wood & Ian Campbell
An initial investigation by David Wood revealed previously unsuspected connections with the remote past and the possibility of an advanced intelligence having left mankind a warning of an impending disaster. These findings were published under the title *Genisis*. David was then joined by Ian Campbell and together they not only confirmed Wood's findings but produced a mathematical proof of both the intelligence and the message—published under the title *Geneset*. It transpires that Nicolas Poussin, the most prolific of the French artists, recorded a coded confirmation of his awareness of the mystery in his 'Les Bergers d'Arcadie' (The Shepherds of Arcadia). This booklet contains the proof.
32 pages, pb • Code **PS**
£4 UK, £5 everywhere else

GIANTS ON RECORD
America's hidden history, secrets in the mounds and the Smithsonian files
by Jim Vieira & Hugh Newman
Over a 200-year period thousands of newspaper reports, town and county histories, letters, photos, diaries, and scientific journals have documented the existence of an ancient race of giants in North America. Extremely large skeletons ranging from 7 feet up to a staggering 18 feet tall have been reportedly uncovered in prehistoric mounds, burial chambers, caves, geometric earthworks, and ancient battlefields. Strange anatomic anomalies such as double rows of teeth, horned skulls, massive jaws that fit over a modern face, and elongated skulls have also been reported. Many of these discoveries were sent to the Smithsonian Institution in Washington D.C., seemingly never to be heard about again. This book examines a possible cover-up initiated by Smithsonian scientists starting in the late 1800s. The origins of 'the tall ones' has been shrouded in mystery for centuries, but this book reveals where they came from, why they got so large, and the reason for their downfall, using the latest scientific research, genetic data, native myths, news reports, and ethnological research.
395 pages, pb • Code **GOR**
£20.50 UK, £23.50 everywhere else

THE HIDDEN HISTORY OF THE HUMAN RACE
by Michael A. Cremo & Richard L. Thompson
This book is an abridged version of *Forbidden Archeology*. Over the past two centuries researchers have found bones and artefacts showing that people like ourselves existed on Earth millions of years ago. But the scientific establishment has suppressed, ignored or forgotten these remarkable facts. Why? Because they contradict dominant views of human origins and antiquity.
322 pages, pb • Code **HH**
£15 UK, £18 everywhere else

HUMAN DEVOLUTION
A Vedic alternative to Darwin's theory *by Michael A. Cremo*
In this sequel to *Forbidden Archeology* Cremo first summarises the evidence for human presence hundreds of millions of years ago. He then gets to the crux of the book: an alternative theory on human origins involving the 'devolution' of humanity from the realm of pure consciousness or spirit. Cremo asks us to contemplate not just where we come from but what a human being is. The picture he paints is of a Universe teeming with life in gross and subtle energy dimensions. If our scientific understanding is to expand in the 21st century it will have to incorporate knowledge about subtle energies, and this book will help shift the paradigm.
554 pages, hb • Code **HD**
£29 UK, £33.50 everywhere else

THE LOST WORLD OF CHAM
The transpacific voyages of the Champa *by David Hatcher Childress*
The mysterious Cham (or Champa) peoples of Southeast Asia formed a megalith-building, seafaring empire that extended into Indonesia, Fiji, Tonga, Micronesia, and beyond—a transoceanic power that reached Mexico, the American Southwest and South America. The Champa maintained many ports in what is today Vietnam, Cambodia, and Indonesia, and their ships plied the Indian Ocean and the Pacific, bringing Chinese, African and Indian traders to far off lands including Olmec ports on the Pacific Coast of Central America. Statues in Vietnam of the Champa show men and women distinctly African in appearance and Champa royalty were known to consist of nearly every racial group. They had iron tools and built megalithic cities of finely-cut basalt and granite, such as the city of My Son in central Vietnam. With a 24-page color section.
424 pages, pb • Code **LWOC**
£23.50 UK, £25.50 everywhere else

THE MAGDALENE LEGACY
The Jesus and Mary bloodline conspiracy *by Laurence Gardner*
Expanding on the Jesus and Mary Magdalene bloodline conspiracy that he covered in his first book *Bloodline of the Holy Grail*, Laurence Gardner here pieces together the picture that Mary Magdalene was far from the so-called 'whore' that Roman Church dogma declared her to be, but a priestess of high status and lineage, and also the wife of Jesus. Their children and descendants, known as the *Desposyni*, were such an inconvenience to Emperor Constantine and his new Roman Church that they were expunged from official records, and references to their marrying and having children were suppressed. Gardner explains that the true Grail—

Mary Magdalene—has been protected and revered for close to two millennia. The signs are there to be seen, and while Dan Brown's novel *The Da Vinci Code* has triggered debate about the Mary Magdalene conspiracy, Gardner says it contains some misconceptions, and he comments on and corrects these here.
395 pages, pb • Code **ML**
£9 UK, £11.50 everywhere else

OUT OF AUSTRALIA
Aborigines, the Dreamtime, and the dawn of the human race
by Steven and Evan Strong
Based on fresh examination of both the DNA and archaeological evidence, the authors conclude that modern humans originated from Australia, not Africa. This father-and-son team bring together 30 years of intensive research in consultation with elders in the original Australian community. Among their conclusions are the following: Humans existed in Australia 40,000 years before they existed in Africa; The original Australians travelled in large boats throughout the Indian-Pacific Ocean Rim; Three distinct kinds of *Homo sapiens* are found in Australia; The evidence from the Americas debunks the Out-of-Africa theory. In the words of the authors, "It is our privilege to be able to share some ancient Original Australian (Aboriginal) truths and paradigms that run contrary to the accepted version of Original pre-history...Our role is to relay and validate their ancient account of times long ago, as told by representatives of the oldest continuous culture on this planet."
212 pages, pb • Code **OOA**
£15.50 UK, £17 everywhere else

THE SECRET IN THE BIBLE
The lost history of the Giza plateau and how Temple priests of the Great Pyramid preserved the evidence of life beyond death *by Tony Bushby*
Expanding on the territory covered in his first book *The Bible Fraud*, the main focus of this, Bushby's second book, is the Egyptian mysteries as coded into the Giza plateau, the Book of the Dead, the Book of Thoth, the Tarot and the divinely given script of the Torah (the first five books of the Old Testament). The sacred knowledge could be revealed only to initiates trained to receive the awesome energy that comes when the transcendental key is unlocked. *The Secret in the Bible* fully reveals that exalted knowledge, providing a new and fascinating insight into the extraordinary 'Secret of the Dead' and explains why the Holy Bible was always considered a divine book. The author backs up this knowledge with an extensive bibliography. The significance of the secrets revealed in this book cannot be taken lightly.
352 pages, pb • Code **SIB**
£15.50 UK, £18 everywhere else

TWO-THIRDS
A history of our galaxy
by David P. Myers
Appendix by David S. Percy
Edited by Mary Bennett
Although this book is in part science-based, drawing on physics and astronomy, it is also deeply philosophical. It demonstrates how the artefacts of our past are the signposts to the future. *Two-Thirds* contains much that is not even recognised by science today, but which can be verified. Age-old mysteries are discussed such as the Moon's essential role in the creation of life on Earth, the significance of the 'Face' on Mars and the relevance of meditation. This is a big book – over 800 pages – which basically seeks to reveal the history and origins of human beings.
811 pages, pb • Code **TT**
£20 UK, £27 everywhere else

THE UNEXPLAINED

THE COSMIC PULSE OF LIFE
The revolutionary biological power behind UFOs
by Trevor James Constable
First published in 1975, this book provides astounding insight into the author's lifelong struggle to let light in on one of the greatest mysteries of all time. In 1958 Constable's first book *They Live in the Sky* advanced the shocking theory that UFOs are mainly invisible. He also held that our atmosphere is home to huge, invisible living creatures, and that these were mutually confused with spacecraft when they became visible. He photographed both types of UFOs with infrared film. A quarter of a century later, teams of engineers and technicians in both Italy and Romania, unaware of Constable's earlier work, obtained virtually identical infrared photos of UFOs which were published in Italy. Later still, NASA used ultraviolet-sensitive videotape to record swarms of invisible UFOs. Convinced that UFOs represent a biological revolution for mankind, Constable began investigating etheric force, starting with the orgone energy discovery of Wilhelm Reich, MD. There's something for everyone in the sheer breadth and depth of his investigations contained within these pages.
346 pages, pb • Code **CPL**
£22.50 UK, £25 everywhere else

THE LANDING LIGHTS OF MAGONIA
UFOs, aliens and the fairy kingdom
by Nigel Graddon
British UFO researcher Nigel Graddon takes us to that magical land of Magonia—the land of the fairies—a place from which some people return while others go and never come back. Graddon discusses fairies, the wee folk, elves, fairy pathways, fairy doors, Welsh folklore, the Tuatha de Dannan, UFO occupants, the Little Blue Man of Studham, the implications of Mars, psychic connections with UFOs and fairies. He also presents: photos of fairies; MJ-12 and the Roswell crash; The Welsh Triangle; The Fatima Vision; Dobbies, Kelpies, Piskies and Spriggams; living between the spaces of 'Space-Time'; the mysterious space object Oumuamua; and much more...
260 pages, pb • Code **LLOM**
£16.50 UK, £18 everywhere else

SOLOMON ISLANDS MYSTERIES
Accounts of giants and UFOs in The Solomon Islands *by Marius Boirayon*
This is Boirayon's memoir of his exploits in these tropical paradises. He shares numerous accounts about several types of giant hominoids that live within the mountains of these islands and have terrorised the people for millennia. He tells the amazing UFO stories of the locals and describes his own close-shaves with UFOs and his expeditions to find their bases—discovering that they have entrances in mountains, reefs and lakes, and are probably connected by tunnels. *'Near where the sunken warships of the Battle of Guadalcanal lie, glowing UFOs rise out of the Pacific, fly into the mountains and disappear into jungle lakes...'* A gripping book which reminds us there are still mysteries to be grappled with in this world.
310 pages, pb • Code **SIM**
£17.50 UK, £20 everywhere else

STRANGE & MYSTERIOUS ANOMALIES
Myths, conspiracies, discrepancies and out of place objects
by Ian Ross Vayro
NEXUS readers will be familiar with Ooparts (out of place artifacts). This book is a great compilation of these and many other mysteries, anomalies, conspiracies and myths. From Egyptians in Australia to the Templars in America; from the Golden Mean to UFOs; from Cults to Yowie—there is something here for everyone. Some have explanations, some do not; some are totally bizarre, but all are here to bemuse and fascinate. Let these stories take you on a journey into the strange and mysterious...
314 pages, pb • Code **SMA**
£15.50 UK, £17.50 everywhere else

UFOS

ANCIENT ALIEN ANCESTORS
Advanced technologies that terraformed our world *by Will Hart*
Sharing scientific evidence of alien involvement with life on our planet, Will Hart refines the theory of directed panspermia – that life was intentionally seeded on Earth by extraterrestrials – to reveal that the same ET agency also created humans and generated civilisation. He shows how the Earth was terraformed through an engineering program so sophisticated and vast that it has escaped our attention so far. Investigating how the ET agency behind the origin of civilisation is still working behind the scenes today, the author examines the strongest modern UFO accounts, including the Russian Roswell case and the suppressed UFO sightings of NASA astronauts. He shows that this advanced ET civilisation is not an alien race in the way we normally think of 'aliens' but rather that they are our ancestors and as human as we are.
376 pages, pb • Code **AAA**
£18.50 UK, £20.50 everywhere else

ANCIENT ALIENS ON MARS
by Mike Bara
Was there once a vast, technologically advanced civilisation on Mars? Did it leave evidence of its existence behind for humans to find eons later? Did these advanced ET visitors vanish in a solar system wide cataclysm of their own making, only to make their way to Earth and start anew? Was Mars once as lush and green as the Earth and teeming with life? Did Mars once orbit a missing member of the solar system, a 'Super Earth' that vanished in a disaster that devastated life on Earth and Venus and left us only the asteroid belt as evidence of its once grand existence? Did the survivors of this catastrophe leave monuments and temples behind, arranged in a mathematical precision designed to teach us the Secret of a new physics that could lift us back to the stars? And are the lights still on down there, deep below the sands of Mars, just waiting for us to uncover them?
218 pages, pb • Code **AAM1**
£20 UK, £22 everywhere else

ANCIENT ALIENS ON MARS II
by Mike Bara
Building on the case made in *Ancient Aliens on Mars* and using data acquired from sophisticated new scientific instruments, New York Times bestselling author Mike Bara shows that the region of Cydonia overlays a vast underground city full of enormous structures and devices that may still be operating. He tackles the enigma of Mars' hollowed-out moon Phobos and exposes evidence from over 30 years of observations that it is artificial. Long-held myths about Mars, including claims that it is protected by an elaborate UFO defense system, are examined and illuminated. Everything from fossilised plants to mechanical debris is exposed in images taken directly from space agencies' own archives. Finally the author offers his take on the secret history of the Red Planet and what happened to the highly advanced civilisation that once flourished there.
234 pages, pb • Code **AAM2**
£20 UK, £22 everywhere else

COVER-UP AT ROSWELL
Exposing the 70-year conspiracy to suppress the truth
by Donald R. Schmitt
The search for truth about Roswell continues. Includes fascinating new information such as: The most comprehensive timeline of events ever written; What the base commander's secretary confessed; Answers to the 20 most frequently asked questions about Roswell; The Roswell 'smoking gun' provided by one of the very arbiters of the cover-up. Donald R. Schmitt is former Director of Special Investigations for the J. Allen Hynek Center for UFO Studies in Chicago. He is a co-founder of the International UFO Museum and Research Center in Roswell, New Mexico.
219 pages, pb • Code **CAR**
£13.50 UK, £15.50 everywhere else

SIGNED

LIGHTQUEST
Your guide to seeing and interacting with UFOs, mystery lights and plasma intelligences *by Andrew Collins*
This book embraces a new understanding of the UFO phenomenon by accepting that its existence is deeply rooted in everything from quantum entanglement to multi-dimensional experiences, strange worlds that interpenetrate our own, and psychic communications. Evidence now points to UFOs, mystery lights and alien intelligences being far more exotic than we could ever have

imagined. They can be seen as sentient energy forms and complex plasma constructs; manifestations of a higher dimensional reality that has coexisted with the human race since time immemorial, and was in the past seen as the Realm of Faerie. Tales of crashed saucers, ancient astronauts and alien agendas dominate the UFO subject in literature and the media, but is all this leading us astray? *LightQuest* is also a field guide to some of the top UFO hotspots around Britain and the USA—where to go, what to do, and what exactly you might expect to see.

415 pages, pb • Code **LQ**
£17 UK, £20 everywhere else

THE NEW HUMAN
Awakening to our cosmic heritage
by Mary Rodwell

Throughout her career Mary Rodwell has worked with over 3,000 cases of encounters with non-human intelligences. In this book she explores the diversity of encounter experiences—true accounts from families and children. Many have full conscious recall of past lives, being educated on space craft and having been prepared for their Earth mission. It offers an alternative perspective on those with ADHD, Asperger Syndrome and Autism. It asks: What are hybrids? What does human DNA tell us about our true origins? Why are many professionals coming out of the 'space closet' with their encounter experiences at this time? How have ET encounters awakened and transformed lives? What are the qualities and abilities of the 'New Human' and do we need a new model of reality? Rodwell is convinced that an unprecedented paradigm shift in human evolution is underway.

385 pages, pb • Code **TNH**
£16.50 UK, £19.50 everywhere else

SKY CRITTERS
Ufos, science and extraterrestrials
by Antony Milne

The author seeks to highlight public and 'official' responses to the phenomena around UFOs, including lights, clouds and other manifestations, and asks whether these are indeed of extraterrestrial origin or come from within Earth itself. Reports are many and varied and he seeks to show the evidence supporting these theories and how scientists' and governments' attitudes have helped to muddy the waters around them – even where there are many witnesses and media reports – with some air forces actively asked to report sightings and others to cover them up.

272 pages, pb • Code **SKY**
£15.50 UK, £17.50 everywhere else

ZECHARIA SITCHIN

THE ANUNNAKI CHRONICLES
A Zecharia Sitchin reader
Edited by Janet Sitchin
• Includes never before published writings

Providing an insider's look into the decades of research behind Zecharia Sitchin's works as well as an in-depth overview of his theories, this collection includes carefully selected chapters from *The Earth Chronicles* series as well as never before published letters, articles, and lectures. Each piece includes an introduction by Sitchin's niece, offering context and insight into his passionate work and revealing the man behind the theories. We learn about the genesis of *The 12th Planet* in 'The Book as a Story', the Sumerians and their Anunnaki influences in 'The Sudden Civilization', the orbit of Nibiru in 'UFOs, Pyramids, and the 12th Planet', the prehistory of the Americas in 'Cities Lost and Found', the extraterrestrial origins of modern man in 'The Cosmic Connection—DNA', and much more.

375 pages, hb • Code **ACH**
£20.50 UK, £23.50 everywhere else

THE LOST BOOK OF ENKI
Memoirs and prophecies of an extraterrestrial god

Having explored humanity's origins from the perspective of humanity itself in *The Earth Chronicles* series, Sitchin here looks at the same story from the view of Lord Enki, an Anunnaki god. Through exhaustive research of primary sources, he here presents the tale as the memoirs of Enki, the leader of the first 'astronauts' to colonise Earth. Is humankind destined to repeat events that occurred on another planet, far away from Earth? An epic tale challenging every assumption we hold about our creation, our past and our future.

330 pages, pb • Code **LBE**
£14.50 UK, £16.50 everywhere else

THERE WERE GIANTS UPON THE EARTH
Gods, demigods, and human ancestry: The evidence of alien DNA

Sitchin insists there have indeed been giants who walked upon the Earth—the Anunnaki, gods and goddesses from the planet Nibiru—and the family trees of these alien ancestors can be traced. Proceeding step-by-step through a mass of ancient writings and artifacts, Sitchin leads the reader to 'Ur of the Chaldees' and Abraham's time, where four thousand years later in 1928 and today's Iraq, archaeologists uncovered in the sacred precinct known as The Royal Tombs of Ur, extraordinary burials unique for the wealth and opulence of artifacts they contained. Zecharia Sitchin reaches the stunning conclusion that the two most extraordinary tombs were the last resting place of an Anunnaki goddess and her demigod spouse, and proceeds to identify them and their genealogical ancestry back to those who were first to land on Earth from Nibiru. Skeletal remains discovered in the tombs are now held at the British Museum and—if DNA analysis were permitted—could provide conclusive physical evidence for alien presence on Earth, and the missing link in our genetic code...

352 pages, pb • Code **TWGUE**
£13 UK, £16 everywhere else

DVDS

Note: NTSC DVDs play on most PAL systems but not vice versa.

THE HEMP SOLUTION
For healthy people on a healthy planet
• Revised update

Explores the hemp plant's fascinating history, its thousands of uses, the economic and cultural forces behind its prohibition and its modern potential to solve major environmental problems. This is the second update of the highly acclaimed 1995 documentary *The Hemp Revolution*. The updated medical section reveals the latest research in THC's and CBD's remarkable ability to kill cancer cells, heal many illnesses, and the newly found role of cannabinoids in balancing every bodily function. This miracle plant also provides sustainable paper, textiles, composite materials and building products, fuel, nutritious food and skin care. With exciting footage shot through Europe, the US, Australia and Nepal, this award-winning Australian film also examines the history and controversy around the drug marijuana, the current 'war on drugs' and the alternative policy options taking root around the world.

PAL DVD, 93 mins • Code **THS**
£15 everywhere

PACKING FOR MARS
One man's journey for truth

Inspired by a 1970s science fiction novel entitled *Alternative 3*, one man, armed with nothing but a camera and an open mind, sets forth on a journey to reveal the truth behind what may be one of the most startling secrets: An elite group is said to be building an exclusive off-world survival colony on Mars. While in pursuit of factual evidence, the protagonist encounters a beautiful and mysterious free spirit on the road who joins him on the adventure. Soon we are immersed deep into the lives of various researchers, experts and whistleblowers who share their extraordinary experiences. This is a true story of enlightenment that forces us all to rethink our reality.

NTSC DVD, 120 mins • Code **PFM**
£21 everywhere

THE SEARCH FOR THE CRYSTAL SKULLS

Join art specialist Dr J. J. Hurtak, archaeologist and explorer David Hatcher Childress, anthropologist Stephen S. Mehler, and current custodian of the famous Mitchell-Hedges Crystal Skull Bill Homann in a mind-blowing quest for some answers to the enigmas of crystal skulls worldwide. Does the fact that they are carved from crystal enable them to store information and interact with human thought waves? There is a lot of evidence to suggest that this is so.

NTSC DVD, 75 mins • Code **TSFCS**
£12 everywhere

WE DON'T VACCINATE!
The myths and reality of the vaccination campaigns
A movie by Michael Leitner

Produced by German freelance journalist Michael Leitner, *We Don't Vaccinate* investigates the claims made by doctors, multinational corporations and health officials who promote vaccination as a safe and effective preventive medical intervention. There are increasing indications to show that the dangers which vaccinations are supposed to protect us from have become disproportionate to the vaccines' expected effects, and this is particularly dramatic for children. The explosion in chronic illnesses in children during the last four decades has parallelled the increase in the number of vaccines given within the first year of life. This complex problem may be due to the additional substances added to vaccines—of particular concern in this film are the aluminium compounds. What is more, this film demonstrates by means of official documents and government infectious disease statistics from the USA, Germany, Austria, England and Wales, that vaccines have never actually protected anyone or saved anyone's life.

PAL DVD, 100 mins • Code **WDV**
£15 everywhere

WHAT HAPPENED ON THE MOON?
An investigation into Apollo

This compelling video throws into serious doubt the authenticity of the Apollo missions and features information that challenges the declared abilities of NASA to successfully send a man to the Moon and return him safely to Earth. New evidence clearly suggests that NASA hoaxed pictures allegedly taken on the lunar surface. The findings are supported by analysis and the testimony of experts from various disciplines including photographer/filmmaker David S. Percy ARPS and physicist David Groves Ph.D. Hear what NASA has to say in response to these disturbing findings.

PAL DVD, 222 mins • Code **WHM**
2 DVD set • £20 everywhere

NEXUS CONFERENCE 2007

20TH to 22ND October 2007,
Novotel Twin Waters Resort,
Sunshine Coast, Australia
PAL DVDs, 90 mins each approx.

1 • CLIMATE CHANGE - WHAT IS REALLY GOING ON?
Catherine Simons (Aust)

NEXUS co-editor Catherine Simons presents alternative scientific views and probable causes of climate change that are not being taken into account.

Code **1DVD7** • £15 everywhere

2 • SUPPRESSED TECHNOLOGY
Dr Ted Loder (USA)

The Chief Technology Officer for Space Energy Access Systems and Director of the Disclosure Project reveals secret, world-changing technology.

Code **2DVD7** • £15 everywhere

3 • HUMAN ENERGY FIELDS REVEALED *Dr Harry Oldfield (UK)*

Biologist and inventor of Polycontrast Interference Photography (PIP), Harry reveals the hidden energy fields of all living things.

Code **3DVD7** • £15 everywhere

4 • THE AMAZING BROWN'S GAS
George Wiseman (USA)

Director of Eagle Research and free-energy researcher/manufacturer, George discusses Brown's Gas water torches and more.

Code **4DVD7** • £15 everywhere

5 • THE HISTORY & SCIENCE OF NEGATIVE IONS *Joshua Shaw (Aust)*

The inventor and manufacturer of the

Elanra Therapeutic Ioniser, Joshua details the attempts to suppress his work.
Code **5DVD7** • £15 everywhere

6 • THE ASSAULT ON HEALTH FREEDOM *Meryl Dorey*
President of the Australian Vaccination Network and editor of Informed Voice magazine, Meryl shocks with her findings.
Code **6DVD7** • £15 everywhere

7 • REVEALING THE SPIRIT WORLD *Dr Harry Oldfield (UK)*
In his second talk, Harry reveals that ghosts, UFOs and other entities can be photographed using PIP technology.
Code **7DVD7** • £15 everywhere

8 • EMR, CELL PHONES & YOUR HEALTH *Sherrill Sellman (USA)*
Author and researcher reveals new info on what mobile phones are doing to your body's hormones and the environment.
Code **8DVD7** • £15 everywhere

9 • PYRAMIDS ACROSS EUROPE *Philip Coppens (UK)*
Respected author presents little-known info on European pyramids, including the controversial Bosnian pyramid.
Code **9DVD7** • £15 everywhere

10 • FROM SOIL TO HEALTH TO SOCIAL CHANGE *Graeme Sait (Aust)*
An expert in all areas of natural agriculture, Graeme reveals practical advice on planting and nutrition.
Code **10DV7** • £15 everywhere

11 • A CONTACTEE SPEAKS OUT *Flor Amanowicz*
Flor speaks publicly for the first time of her extraordinary experiences with ETs in Peru and Australia's important role to come.
Code **11DV7** • £15 everywhere

12 • CROP CIRCLES 2007 *Philip Coppens (UK)*
Philip's second talk covers the intricate geometry of many formations as well as behind-the-scenes politics.
Code **12DV7** • £15 everywhere

13 • UFO SECRECY & OUR FUTURE *Dr Ted Loder (USA)*
Dr Ted Loder's second presentation clearly explains how we can gain immediate benefits from public disclosure and utilisation of advanced technology that already exists.
Code **13DV7** • £15 everywhere

14 • SUMMARY HIGHLIGHTS
A special 2 hour DVD covering the highlights and most popular segments of the conference.
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Code **SET07**
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NEXUS CONFERENCE 2008

4TH to 6TH October 2008, Novotel Twin Waters Resort, Sunshine Coast, Australia
DVDs 90 mins each approx. PAL & NTSC formats available

1 • SCHAUBERGER AND THE MAGIC OF WATER *Callum Coats (Aust)*
Explains Viktor Schauberger's ingenius work, especially with water, harnessing nature's simplicity with understanding of the vortex.
Code **1DVD8** • £15 everywhere

2 • PROTECTING AGAINST E-SMOG *Walter Laufs (Germany)*
Mastermind of a solution to E-Smog.
Plus...
NEGATIVE IONS & HEALTH *Joshua Shaw (Aust)*
Joshua's latest invention, fluoridation exposé, the Pan fiasco and more...
Code **2DVD8** • £15 everywhere

3 • WHITE POWDER GOLD *Barry Carter (USA)*
Barry believes that this is the greatest scientific discovery in human history, associated with levitation, superconductivity and biological and psychic effects.
Code **3DVD8** • £15 everywhere

4 • MORE BIO-ENERGY FIELD MYSTERIES *Dr Harry Oldfield (UK)*
Scientist and inventor utilising the special properties of crystals, expands on his amazing discoveries with energy fields and the invisible universe.
Code **4DVD8** • £15 everywhere

5 • UNDERSTANDING HUMANS, EXTRATERRESTRIALS & OUR PLANETARY MIND *Gary Opit (Aust)*
Research from multi-disciplined fields gives us a new understanding of our universe, including our Moon.
Code **5DVD8** • £15 everywhere

6 • EVOLUTION AND THE INTERVENTION THEORY *Lloyd Pye (USA)*
Latest information combining data from ancient records with what science reveals in our own DNA, indicating off-world intervention.
Code **6DVD8** • £15 everywhere

7 • UNDERWATER RUINS FROM PREHISTORIC TO MODERN TIMES *Karen Mutton (Aust)*
Overviews sunken ruins around the world including the latest research in Spain, Bimini, Yonaguni and India.
Code **7DVD8** • £15 everywhere

8 • CONSPIRACIES & THE BIG PICTURE *Project Camelot (USA)*
Bill Ryan & Kerry Cassidy share interviews, alternate time-lines and enlightening testimonies about the true nature of our world.
Code **8DVD8** • £15 everywhere

9 • THE MITCHELL-HEDGES CRYSTAL SKULL *Bill Homann (USA)*
Covers the history and legends surrounding this unique skull. **Bonus:** Harry Oldfield's exclusive footage of the skull's energy fields.
Code **9DVD8** • £15 everywhere

10 • THE CHAMPION OF ALL PLANTS — HEMP *Susanna Wilkerson*
Explains how easy it is to grow the most useful plant on the planet organically for food, shelter, clothing, fuel, paper and building materials.
Code **10DV8** • £15 everywhere

11 • GOD SAVE US FROM RELIGION *Ian Ross Vayro (Aust)*
The author of *God Save Us From Religion, Tears In Heaven* and *They Lied To Us In Sunday School* shares his views on the validity of theology.
Code **11DV8** • £15 everywhere

12 • THE *RINGING CEDARS* AT WORK *Leonid Sharashkin (Russia)*
The editor of the *Ringing Cedars Series* explains the spiritual, cultural and economic significance of the Russian dacha gardening movement.
Code **12DV8** • £15 everywhere

13 • SCIENCE MEETS SPIRITUALITY — WHERE NEXT? *Paul Bailey (Aust)*
The author of the best selling book *Think Of An Elephant* discusses the meeting ground of science and spirituality.
Code **13DV8** • £15 everywhere

14 • SUMMARY HIGHLIGHTS
A special 2 hour DVD covering the highlights and most popular segments of the conference.
Code **14DV8** • £20 everywhere

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Code **SET08**
£150 UK, £155 everywhere else

NEXUS CONFERENCE 2010

24TH to 26TH July 2010, Novotel Twin Waters Resort, Sunshine Coast, Australia
DVDs 90 mins each approx. PAL & NTSC formats available

1 • DIRTY ELECTRICITY, EMFS & HEALTH *Donna Fisher (Aust)*
Author and investigator of the links between ill health and the invisible plague. Simple solutions for homes, schools & at work.
Code **1DVD0** • £15 everywhere

2 • THE TRILLION DOLLAR CONSPIRACY & THE NWO *Jim Marrs (USA)*
Award-winning author and investigative journalist in the fields of UFOs, JFK, 9/11, remote viewing and secret control groups.
Code **2DVD0** • £15 everywhere

3 • AMAZING ANCIENT ARCHAEOLOGICAL ARTEFACTS *Klaus Dona (Austria)*
Art exhibition curator who travels the world in search of unusual artefacts. Extraordinary evidence of mankind's true heritage.
Code **3DVD0** • £15 everywhere

4 • THE ELECTRIC UNIVERSE (2010) *Wal Thornhill (Aust)*
Key researcher on the electric nature of the cosmos helps us understand the solar system, ancient cataclysms and solar changes. Includes unique predictions.
Code **4DVD0** • £15 everywhere

5 • FREQUENCY HEALING TECHNOLOGY *Dr Kathy Forti (USA)*
Came back from a near-death experience with the blueprint for a new technology. Experience some beautiful fractal visuals.
Code **5DVD0** • £15 everywhere

6 • HIDDEN HISTORY *Jim Marrs (USA)*
Secrets that connect the Bible, the Knights Templar, Freemasons, the Trilateral Commission & 9/11. Don't miss either of Jim's popular, witty & fascinating presentations.
Code **6DVD0** • £15 everywhere

7 • LANGUAGE & SOCIAL CONTROL *David-Wynn: Miller (USA)*
How our language has been used to enslave the masses for thousands of years; and what we can do about it. New insights on 'takeovers'.
Code **7DVD0** • £15 everywhere

8 • THE EXPANDING EARTH & 2012 *Dr James Maxlow (Aust)*
Geologist and leading advocate of the Expanding Earth hypothesis and what we can expect in the future. Includes animated models of shifting Poles.
Code **8DVD0** • £15 everywhere

9 • UFOS, EXOPOLITICS AND DISCLOSURE *Stephen Bassett (USA)*
Leading advocate for ending government secrecy about an extraterrestrial presence engaging the human race. Antigravitic technology solutions.
Code **9DVD0** • £15 everywhere

10 • HCG HORMONES, BODY FAT & HEALTH *Sherrill Sellman (USA)*
Discovers an unusual and effective way of losing weight without the usual side effects of traditional diets. See the rejuvenating results.
Code **10DV0** • £15 everywhere

11 • SACRED GEOMETRY & UNIFIED FIELDS *Nassim Haramein (USA)*
Physicist presents new concepts explaining how we are all interconnected & can access infinite knowledge.
Plus...
A PART OF THE 'BIG PICTURE'? *Duncan Roads (Aust) 30 mins*
A shocking yet empowering exposé.
Code **11DV0** • £15 everywhere

12 • THEY LIED TO US IN SUNDAY SCHOOL *Ian Ross Vayro (Aust)*
Noah & biblical intrigues. Back by popular demand.
Code **12DV0** • £15 everywhere

13 • COMMUNICATING WITH ANIMALS *Trisha McCagh (Aust)*
Animal Whisperer explains 5 levels of communication with the animal kingdom. Interacts with pets & in the wild. Incredible tales not to be missed!
Code **13DV0** • £15 everywhere

14 • SUMMARY HIGHLIGHTS
A special 2 hour DVD covering the highlights and most popular segments of the conference.
Code **14DV0** • £20 everywhere

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Code **SET10**
£150 UK, £155 everywhere else

NEXUS CONFERENCE 2011

23RD to 25TH July 2011, Novotel Twin Waters Resort, Sunshine Coast, Australia
DVDs 60–90 mins each PAL & NTSC formats available

NEXUS MAIL ORDER

All prices in pounds sterling (GBP) and include postage & packaging

1 • DANGERS OF DIRTY ELECTRICITY AND ELECTROMAGNETIC FIELDS *David Stetzer (USA)*
Co-inventor of RF meters and filters explains how to detect, measure and neutralise high-frequency voltage transients (dirty electricity) and electromagnetic fields.
Code **1DVD1** • £15 everywhere

2 • REMOTE VIEWING, PSYCHOKINETICS AND LUCK CYCLES *James F. Coyle (Vanuatu)*
Author of *Beyond Belief* on secrets of mind power, out-of-body states and luck cycles.
Code **2DVD1** • £15 everywhere

3 • ESP, MIND CONTROL AND THE NEW ALCHEMICAL PARADIGM *Dr Richard A. Miller (USA)*
Physicist and alchemist expands on ESP, mind control and agriculture for a new age.
Code **3DVD1** • £15 everywhere

4 • TIME-TRAVELLING EXTRATERRESTRIALS AND SELF-ACTIVATING MACHINES *Linda Moulton Howe (USA)*
Earthfiles website editor on UFO cover-ups, ET time travellers seeking our DNA, and self-activating symbols and machines.
Code **4DVD1** • £15 everywhere

5 • UFO MYSTERY AND CONSPIRACY IN SUBURBAN MELBOURNE *Shane Ryan (Aust)*
Presents his film *Westall '66* about a UFO mass sighting and the ensuing official cover-up.
Code **5DVD1** • £15 everywhere

6 • THE NEW SCIENTIFIC RENAISSANCE AND OUR SURVIVAL BLUEPRINT *Robert Pope (Aust)*
Hails a new era of fractal life-science that's our survival blueprint into the future.
Code **6DVD1** • £15 everywhere

7 • SACRED GEOMETRY, CONSCIOUSNESS AND THE UNIVERSAL ORDER *Jonathan Quintin (NZ)*
Artist / cosmologist shows how sacred geometry can attune us to the harmony of the universal order.
Code **7DVD1** • £15 everywhere

8 • SPACE WEAPONS TREATY AND THE COSMIC CULTURAL CONNECTION *Dr Carol Rosin (USA)*
Skype presentation, including NEXUS Editor, on a treaty to ban space-based weapons and plans to link with cosmic cultures.
Code **8DVD1** • £15 everywhere

9 • LIFE AFTER DEATH, LIFE BEFORE LIFE, AND PAST LIFE RECALL *Barry Eaton (Aust)*
Radio presenter, psychic and *Afterlife* author tackles the age-old questions of what happens when we die and what we may find on the other side.
Code **9DVD1** • £15 everywhere

10 • NATURAL SOLUTIONS FOR WEIGHT LOSS AND GREAT HEALTH *Sherrill Sellman (USA)*
Naturopathic doctor on hormone and metabolism balancing in weight loss.
Code **10DV1** • £15 everywhere

11 • STANDING UP TO THE ASSAULT ON OUR HEALTH FREEDOM *Meryl Dorey (Aust)*
Australian Vaccination Network founder on governments and vested interests eroding our freedom in alternative health and vaccination.
Code **11DV1** • £15 everywhere

12 • PROPHECIES AND ILLUSTRATIONS OF BENJAMÍN PARRAVICINI *Flor Amanowicz (Aust)*
Psychic intuitive presents spiritual messages from an Argentinian seer.
Code **12DV1** • £15 everywhere

13 • COSMIC COINCIDENCES AND EXPECTATIONS FOR 2012 *Pane Andov (Aust)*
Computer scientist turned yogi prepares us for the end of a Great Cycle in 2012.
Code **13DV1** • £15 everywhere

14 • CONVERSATIONS WITH ALIENS ON OUR HISTORY AND FUTURE *Alec Newald (NZ) CoEvolution* author reveals significant new details which his ET hosts say can be released now.
Code **14DV1** • £15 everywhere

15 • THE CHANI PROJECT & OTHER HIGH-LEVEL PLANS FOR HUMANITY'S SPIRITUAL AWAKENING *Duncan Roads (Aust) in lieu of 'Acolyte'*
NEXUS Editor summarises the work of an insider on CHANI predictions and BEZERK links.
Code **15DV1** • £15 everywhere

★ SPECIAL OFFER ★
ORDER THE ABOVE 15 DVDS TOGETHER & SAVE £££!
(*SUMMARY HIGHLIGHTS* NOT INCLUDED) • Code **SET11**
£150 UK, £155 everywhere else

16 • SUMMARY HIGHLIGHTS
Highlights of the three day NEXUS Conference 2011 containing approximately five minutes of each presentation.
Code **16DV1** • £20 everywhere

NEXUS CONFERENCE 2013

22ND to 24TH June 2013, Novotel Twin Waters Resort, Sunshine Coast, Australia
PAL DVDs, 90 mins each approx.

1 • MEDICINAL AND INDUSTRIAL USES OF HEMP *Susanna Wilkerson*
Naturopath and industrial help grower expands on hemp's amazing health benefits and offers eco-sound solutions in building and farming.
Code **1DV3** • £15 everywhere

2 • SMART METERS, WI-FI, MOBILE PHONES & EMF *Dr Don Maisch*
Expert on effects of EMF highlights the latest environmental and health concerns, especially with smart meters.
Code **2DV3** • £15 everywhere

3 • LIFE BEYOND DEATH *Dannion Brinkley (via Skype)*
Lightning-strike survivor and near-death experiencer reveals what happens when we 'die'.
PLEASE NOTE: Dannion's visual begins 20 minutes into his talk but the audio is complete throughout.
Code **3DV3** • £15 everywhere

4 • COMMUNICATING WITH ANIMALS *Trisha McCagh*
Internationally acclaimed as a teacher and animal communicator, Trisha is the author of *Stories from the Animal Whisperer*.
Code **4DV3** • £15 everywhere

5 • SECRET NAZI TECHNOLOGY AFTER WORLD WAR II *Douglas Dietrich*
Former US Department of Defense librarian uncovers secret technology and the hidden history of World War II.
PLEASE NOTE: This DVD will be remastered and forwarded without charge to those who have ordered it, in the event that the slides are released for this presentation.
Code **5DV3** • £15 everywhere

6 • MAGNESIUM, THE 'MOTHER MINERAL' *Sandy Sanderson*
Health researcher explores the healing powers of magnesium.
Code **6DV3** • £15 everywhere

7 • THE ATACAMA HUMANOID AND DISCLOSURE UPDATE *Dr Steven Greer (via Skype)*
Founder of the Center for the Study of Extraterrestrial Intelligence (CSETI) and The Disclosure Project.
Code **7DV3** • £15 everywhere

8 • MILITARY RESPONSE TO HOSTILE UFOS *Gordon Duff*
Senior editor of USA Veterans Today and counterintelligence specialist reflects on his exposure to *Majestic* documents and UFOs.
Code **8DV3** • £15 everywhere

9 • CHILDREN'S CONTACT WITH EXTRADIMENSIONAL BEINGS *Mary Rodwell*
Contactee researcher records extraordinary conscious contact between children and ETs.
Code **9DV3** • £15 everywhere

10 • SACRED MATHEMATICS, GEOMETRY AND SYMBOLOGY *Jonathan Quintin*
Multimedia artist and cosmologist demonstrates via breathtaking imagery the links between sacred geometry and architecture, resonant fields and states of consciousness.
Code **10DV3** • £15 everywhere

11 • TECHNOLOGY REVEALS NONPHYSICAL ENTITIES *Harry Oldfield*
Scientist and inventor explains how his technology reveals energies & nonphysical life forms, and can also effect healing.
Code **11DV3** • £15 everywhere

12 • MIND CONTROL VIA MODIFIED PLANTS AND FOODS *Richard Alan Miller*
Biophysicist involved in classified military research on ESP examines mind-control effects of GM foods and suggests what we can do about it.
Code **12DV3** • £15 everywhere

13 • A NEW HISTORY OF MANKIND: THE BIGGER PICTURE *Duncan Roads*
Editor/publisher of NEXUS Magazine draws upon decades of research in presenting his assessment of who 'we' are and where we are going.
Code **13DV3** • £15 everywhere

14 • SUMMARY HIGHLIGHTS
Highlights of the three day NEXUS Conference 2013 containing approximately five minutes of each presentation.
Code **14DV3** • £20 everywhere

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Code **SET13**
£150 UK, £155 everywhere else

NEXUS CONFERENCE 2014

2ND to 4TH August 2014, Novotel Twin Waters Resort, Sunshine Coast, Australia
DVDs 90 mins each approx. PAL & NTSC formats available

1 • HOW TO LIVE WITHOUT DISEASE *Don Chisholm (Australia)*
Don covers issues such as weight loss without dieting and reducing ageing and disease, as it relates to gut flora and fauna for health.
Code **1DVD4** • £15 everywhere

2 • FROM EGYPT TO TESLA *James (J.J) & Desiree Hurtak (USA)*
Ancient Egypt, consciousness, free energy and the future.
Code **2DVD4** • £15 everywhere

3 • ANCIENT ALIEN INFLUENCE IN AFRICA & THE UBUNTU PARTY *Michael Tellinger (South Africa)*
A specialist on ancient mysteries of Africa shares his knowledge and plans for a better society.
Code **3DVD4** • £15 everywhere

4 • CLIMATE CHANGE & THE ELECTRIC UNIVERSE *Wal Thornhill (Australia)*
Explore the electrical Sun and its effects on climate.
Code **4DVD4** • £15 everywhere

5 • ALIENS, HUMANS AND THE FUTURE *Simon Parkes (UK via Skype)*
Simon takes us on his journey and experiences of human-ET history and politics.
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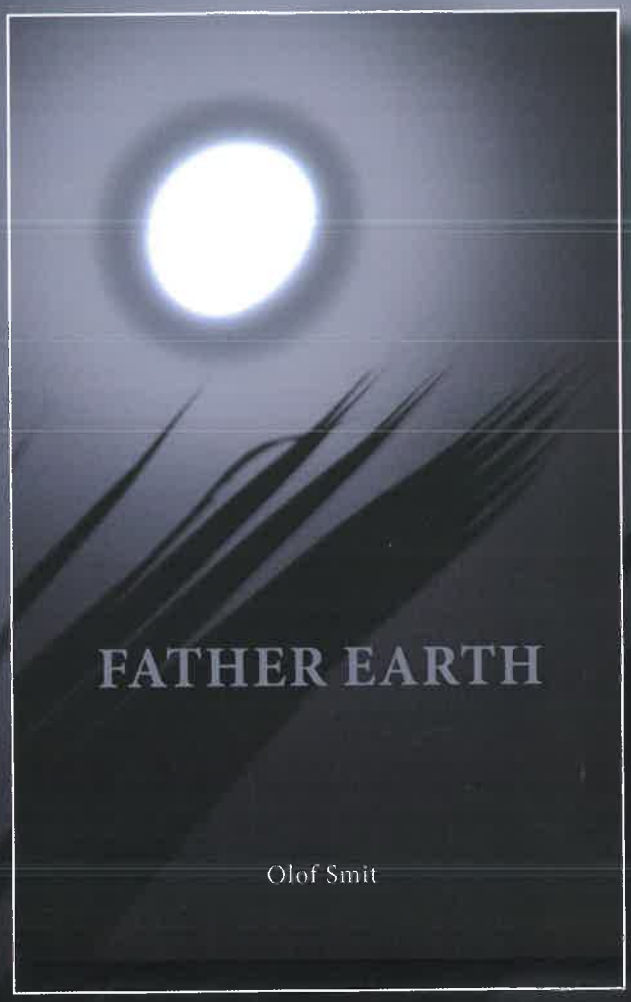

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